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FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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LONDON, SATURDAY, FEBRUARY 17, 1849.

PRICE 6D.

STEAM-ENGINE AND VALUABLE MINING MATERIALS FOR SALE MR. TIPPET has been favoured with instructions to OFFER FOR SALE, BY PUBLIC AUCTION, on Tuesday, the 90th day of February Inst., at Eleven o'clock in the forencon, at VENTONGIMPS MINE, in the parish of PERRANZABULOE, CORNWALL, the following valuable

PERRANZABULOE, CORNWALL, the following valuable

NINING MATERIALS.

STEAM-ENGINE, 50-inch cylinder, one boiler, about 13 tons, 7 seet stroke in the shaft, with the timber and first piece of rod, &c., in very superior condition.

Shears, 16 17-inch pumps, 1 16-inch ditto, 2 15-inch ditto, 2 12-inch ditto, 3 11-inch ditto, 17-inch vindbore, 1 16-inch ditto, 1 15-inch ditto, 2 11-inch ditto, 1 11-inch ditto, 1 17-inch vindbore, 1 16-inch ditto, 1 15-inch ditto, 1 11-inch ditto, 2 11-inch ditto, 3 11-inch ditto, 1 11-inch ditto, 2 10-inch ditto, 3 11-inch ditto, 1 11-inch ditto, 2 11-inch ditto, 3 11-inch ditto, 1 11-inch ditto, 2 11-inch ditto, 3 11-inch ditto, 3

VALUABLE STEAM-ENGINES, AND OTHER MINING MATERIALS, AT WHEAL RUBY AND GARLIDNA MINES, IN WENDRON.

M. T. H. E.D. W. A.D. S. will SELL, BY AUCTION, on Wednesday, the 28th day of February inst., at Eleven o'clock in the forencon of WENDRON, the following VALUABLE

VALUABLE

VALUABLE

VALUABLE

VALUABLE

VALUABLE

DRON, the following VALUABLE
MINING MATERIALS AND OTHER EFFECTS—VIZ.:
excellent 70-inch DRAUGHT ENGINE, with two boilers, and every other re

A very excellent rotation and applications of the second s ing machine, crab, and winch.

2 10-feet 14-inch plunger poles; a 14-inch H-piece, top door piece, windbore, and staf-ge-bax; 5 6-feet 12 and 13-inch doorpieces; 5 10-feet 12, 10, and 5-inch windbores; 20-fathom 14-inch plunger lift, with doorpieces, &c., complete; 10 fathoms of 13-inch mps, 10 ditto of 14-inch ditto, 20 ditto of 13-inch ditto; 30 ditto of 13-inch ditto, 10 ditto of 9-inch ditto; 14, 13, 11, and 8-inch working barrels; a quantity of 12 and inch rod timber.

-inch rod timber.

Several pairs of faggotted rod-plates, 2-inch bucket-rods, whim and other chains, tram
oad iron, saddles and waggon, a miners' dial, smiths' beliows, anvils, screw plates and
aps, whim and winze kibbles, old brass, wrought and cast-iron, ladders, launders, stamp
all other roofs and sheds, a quantity of timber, of various descriptions.

All the ACCOUNT-HOUSE FURNITURE, and numerous other articles.

Also, the UNEXPIRED TERM of 86 years of and in the newly-built and commodious WELLING-HOUSE and SCHOOL BUILDING on the mine, 75 feet by 27 feet within, with an acre of land adjoining, properly fenced and improved.

The whole of the above materials are in excellent condition, and well deserving the attention of miners and others.

An early attendance is particularly requested.

Dated Feb. 12, 1849.

VALUABLE 53-inch cylinder PUMPING ENGINE, THREE BOILERS, AND OTHER USEFUL MINE MATERIALS FOR SALE.

VALUABLE 53-inch cylinder PUMPING ENGINE, THREE BOILERS, AND OTHER USEFUL MINE MATERIALS FOR SALE.

MR. THOMAS RICHARDS, Mine Agent and Auctioneer, Marasion, is instructed to hold a final and unreserved Public Auctions, at WHEAL GREY, in the parish of GERMOE, on Tuescalay, the 6th of March, for SELLING THE UNDER-MENTIONED

MINING MATERIAL S—VIZ.:

1 53-inch cylinder STEAM-ENGINE, 9 feet stroke in cylinder, and 7 feet in shaft.
3 BOILERS, in excellent condition.
Capstan, shears, balance and angle bobs, horse-whims, sheds and roofs.
14 16-inch, 8 16-inch, 9 10-inch, 29-inch, and 9 8-inch pumps.
1 10-inch and 1 8-inch H-pieces and topdoors.
1 10-inch, 8 15-inch, 1 10-inch, 2 Junch, 1 8-inch, and 1 74-inch plunger poles, with pole cases, stuffing boxes, and glands.
All sizes of faggotted and wrought from strapping plates.
Several-clack doorpieces, working barrols, and windbores.
Smiths' tools, auxils, bellows, new and useful iron, scrap, wrought, and cast-from. Staples and glands, screw stocks, plates and taps.
Also, the COUNT-HOUSE FURNITURE, together with a large quantity and great variety of other materials in daily use in mines.

The Sale will commence precisely at Ten o'clock a. m.
Wheal Grey is situated within 3 miles of Porthlewon, 4 miles of St. Michael's Mount, and 5 miles of Hayle.—Dated Marasion, Jan. 30, 1849.

HIGHLY VALUABLE COAL ESTATE, MANSION, AND LANDS,

HIGHLY VALUABLE COAL ESTATE, MANSION, AND LANDS, NEAR WREXHAM, DENBIGHSHIRE.

MEAR WREXHAM, DENEIGHSHIRE.

MESSRS. CHURTON will SELL, BY AUCTION, on Monday, the 12th day of March, 1849, at Three o'clock in the afternoon, at the ROTAL HOTEL, in CHESTER, subject to conditions of sale, to be then produced, at that highly valuable ESTATE, with the MANSION, FARM BUILDINGS, GARDENS and PLEASURE GROUNDS, called

three miles from the Wrexham Ralway Station), with the COTTAGES and FIELDS be onging thereto, containing about 74 statute acres.

Also, the MINES and SEAMS OF COAL and IRONSTONE underneath the estate, or bout 50 acres thereof.

about 60 acres thereof.

Also, the owner's SHARE in the PLANT and LEASES of the BRYN MALLY COLLIERY, to which a branch of the Shrewsbury and Chester Railway is brought to the pit's
mouth, and is in full operation, connecting it with Chester, Birkenhead, Shrewsbury,
and the principal towns in Lancashirs, Cheshire, and Wales.

A plan of the estate, and section of the coal seams, may be seen, and tickets to view
abtained, on application to Mr. Richard Blundell, attorney, 6, Cook-street, Liverpool.

GLOUCESTERSHIRE.—TO CAPITALISTS DESIROUS
OF SAFE AND PROFITABLE INVESTMENT.
THREE of the most extensive, valuable, and best situated COLLIERIES in her Majesty's
FOREST OF DEAN,

THREE of the most extensive, valuable, and best situated COLLIERIES in her Majesty's FOREST OF DEAN,

About 800 acres in extent, which are computed to contain six millions seven hundred and inconfigurate the inconfiguration of coal, of the best quality.

FOR PEREMPTORY SALE, BY AUCTION, by Measrs, GRAHAM (by order of the nectgages), at the BELL HOTEL, GLOUCESTER, on Saturday, the 10th day of March, 849, at Three o'clock in the afternoon, subject to conditions of sale, all those Highly at Three o'clock in the afternoon, subject to conditions of sale, all those might be subject to conditions of sale, all those might be subject to conditions of sale, all those might be subject to conditions of sale, all those flows as the NEW ROAD LEVEL, the FAYOURITE, and BRITANNIA COLLIERIES.

LOT I.—THE FAYOURITE AND BRITANNIA COLLIERIES.

LOT I.—THE FAYOURITE AND BRITANNIA COLLIERIES.

LOT I.—THE FAYOURITE AND BRITANNIA is also galed to be Coleford High Delf Vein of Coal, and all the other cens between it and the Churchway High Delf Vein. The BRITANNIA is also galed to be Coleford High Delf Vein of Coal, and all the other cens between it and the Churchway High Delf Vein. The BRITANNIA is also galed to be Coleford High Delf Vein of Coal, and all the other cens between the world in the whole line of coal, and day cens of the south way be thoroughly worked with the whole line of coundary. They are well situate, at a piace called Brierly, four miles from Mitcheldoan, arrounded by some of the best collieries in the Forest, and are in such an advantageous settion that both (or the 600 acres of coal) may be thoroughly worked with the same ablishment. The Severa and Wye Ranly be thoroughly worked with the same ablishment. The Severa and Wye Ranly be dained by a sub liberty of the mills of yards of the intended pits, and joins locomotive branches of the South Wales and Monmouth and Hereford Railways (for ch Acts are obtained) a short distance to the east of them—thus rendering every farly required for the transit of coal to the princip ch Acts are or the transit of constant of capital, the lay of comparatively small amount of 300 tons per day, present a just of a capital small small

LOT II.—THE NEW ROAD LEVEL,

saled to the Yard Delf, for Yorkley, Vein of Coal, and is advantageously situated at read a read a

reard dus

TEAM-ENGINES.—From 8 to 20-horse power ENGINES ALWAYS IN STOCK.

Apply to Mr. CAPPER, Engine-Maker and Founder, BIRMINGHAM.

Price-£12 to £16; with boiler, £22 per horse.

TO ENGINEERS, MACHINE-MAKERS, FOUNDERS, STEAM-SHIP AND LOCOMOTIVE BUILDERS, CHAIN AND ANCHOR SMITHS, ROPE AND SAIL-MAKERS, BLOCKMAKERS, AND OTHERS.

TO BE SOLD, with the GOOD-WILL of the CONCERNS, in consequence of the dissolution of the copartneries, PREMISES, MACHINERY, and TOOLS.—There will be exposed FOR SALE, BY PUBLIC ROUP, within the LEMON TREE TAVERN, ABERDEEN, on Friday, the 9th day of March next, at Two o'clock aftermoon, those extensive PREMISES at FOOTDEE, ABERDEEN, known as the YORK-PLACE IRON WORKS, belonging to Mesar. William Simpson and Co., together with the whole MACHINERY and TOOLS contained therein.

These WORKS contain turing, fitting-up, and finishing shops; millwright and pattern shops; large iron foundry; boiler shop; breas foundry; forging and blacksmiths shops; iron store, warehouses, and comming house. The whole of the buildings are of the most substantial, commodious, and suitable description, for the various trades carried on within them, and are in excellent order, having been created only 10 years ago, at a large expense. The fou-duty is moderaby and, from the works being within 100 yards of the harbour, the situation is most silvaningeons.

No expense was spared in the procuring of the TOOLS and MACHINERY. They are of the fullest and most modern description, and in excellent working order, and are capable of turning out every kind of iron-work—shelding the largest size of marine and land engines, locomotive engines, railway furnishings, and general machinery, and blacksmith work. There is a large and most valuable assortment of patterns, of all descriptions, which will be given over with the works as part of the plant.

There is a fixed COMENSING ENGINE, of 35-horse power, with two boilers, and an ample supply of water within the premises, with all the requisite GEARING and SHAFTING for driving the machinery and tools.

There is a fixed COMENSING ENGINE, of 15-horse power, with all the TOOLS, HEATING STOVES, and UTENSILS, suitable for the building of the largest class of fron ves

sen, and all further particulars learned, on application to Catto, Thomson, and Co., Footdee, Aberdeen.—Feb. 5th, 1849.

TO BE SOLD, THE VICTORIA IRON-WORKS, near NEWFORT, MONMOUPHSHIRE.

These works are situated on the Monmouthshire Canal Company's tramroad, about 20 miles from Newport, immediately addoining the celebrated iron-works of the Ebbw Vale Company, whose brand "E. V.," is well known and highly prized in all the markets of the world. The minerals of this properly are identical with those of the Ebbw Vale Company, whose brand "E. V.," is well known and highly prized in all the markets of the world. The minerals of this properly are identical with those of the Ebbw Vale Works. The WORKS comprise four large blast-furnaces, with foundations cut, and blast-pipes laid, for four more such furnaces; a powerful blask-engine, capable of runking 20,000 cu-bical feet of air per minute; an air receiver, 24 fast diameter; four iron steam-bollers, each 36 ft. in length and 8 ft. diameter; a large casting house for the four blast-furnaces; four bridge lofts, or filling houses, with satenaive times adjoining for reasting the ironstone; three double refineries and a single refinery, capable of runking 356 tons weakly of aner's metal; a water balance, for raising limestone to the blast-furnace; a bar-iron forge, with squeezer and ten puddling furnaces; a rolling mill with eight balling furnaces, adapted for rolling rails sed all sizes of merchant iron, worked by an engine of about 90-horse power, and capable of turning ont annually 18,000 tons of finished bars; a foundry, comprising air-furnace and cupola, water-wheel for blowing cupola, turning the bar-iron rollers, and for turning and boring in general; smith's shop, carpenters', pattern makers', and fitting-up shops, punching machine, brass foundry, brick-yard, with two klins and drying stoves, several reservoirs for water, and other conveniences. Seven pits have been sunk on the property; and through them all the different veins of coal and fronstone known in the d

good to the lessor.

Should the iron trade ever arrive at so depressed a state as to make it desirable to get do of the lessor, the lessor arrive at so depressed a state as to make it desirable to get for of the less, the lessoes have power to determine it any time, on giving three years notice, and leaving on the land, for the benefit of the lessor, plant to the value of 10,000f., the rental of the houses and profits from the sale of coal alone would far more than pay the minimum rent during the currency of the notice. Facilities will be given for payment of the purchase money by reaconable instalments.

For further particulars apply to Mr. John Frances. of the purchase money by reasonable instalments.

further particulars apply to Mr. John Fraser, Newport, Monmouthshire, or to.

Tilson, Squance, Clarke, and Morice, 29, Coleman-street, London.

VALUABLE SLATE QUARRY, in CARNARVONSHIRE ALUADILE SHALL QUARTE, in CARLATARY CASSALLY — TO BE LET, for such term, and on such conditions, as may be agreed upon the RIGHT of WORKING a valuable BOCK of SLATE, on the BLAENY-CWM-FRIDD in the parish of PENMACHNE, upon which a large sum of mounely has been expended in driving a level, and in other works. The metal of this rock has been proved to be equal to that of the finest Festining Quarties, which lie in the vicinity. The undertaking would suit a joint-stock company or a private speculator, as it can now be brought into early and extensive work, at a comparatively small outlay.

For particulars apply to Francis Hallowse, Eqs., National Provincial Bank, Dolgelly; and to view the quarries, to Mr. Humphrey Williams, Blaeny-cwm Farm, Penmachne.

JAMES BOYDELL, LAND, MINE, AND MACHINERY VALUER, AND AGENT.

No. 54, THESADNEEDLE-STREET, LONDON,

Has to DISPOSE OF a large quantity of STEEL and MANUFACTURED HARDWARE, now warehoused in London.

several valuable PATENT RIGHTS, some of which have been profitably worked.

Several valuable FALENT RIGHTS, some of which have been profitably worked.

A FREESTONE QUARRY, in North Wales, from which, on account of its quality, the small cost of getting and working it, and its proximity to the sea, London may be supplied at lower prices than those now railing for much inferior stone, and a large profit left to the proprieter.

An IRONSTONE MIME, likewise in North Wales, worked open cast, close to a shipping port, and now in profitable work.

port, and now in prontable work.

The LEASE of a very celebrated FOUNDRY and ENGINEERING ESTABLISHMENT, on the River Dee, complete, with fixtures, machinery and tools, in working order, and ready for any parties to embark at once on building first-class from steam-vessels, and marine and locomotive engines.

The above will be found worthy the attention of any parties deairing to invest money in a profitable business, as they will be disposed of upon terms which will ensure an unusual return to the purchasers of them.

J. BOYDELL has also at his DISPOSAL a RESIDENCE and LANDED PROPERTY in SHROPSHIRE, which is in a good neighbourhood, and which (a large portion of the land adjoining the house being of a most picturesque character, and well timbered, with a streamlet running through ity might be made a country residence for any nobleman or gentleman, such as but few in the kingdom would bear comparison with.

Particulars of the above may be had, upon application, at 34, Threadneedle-street. AND AND MINERAL SHRVEYING, PONTYTRIDD, GLAMORGANSHIRE.—W. T. LEWIS begs most respectfully to inform Landowners, Coal Proprietors, and other gentlemen, that he has just COMMENCED BUSINESS in the ABOVE LINE, at this place, and hopes that, by strict attention and adherence to integrity, he may be honoured with their support.

Every department of SURVEYING executed with fidelity, accuracy, and dispatch.

Mill-street, Pontypridd, Feb. 14, 1849.

TO ENGINEERS AND BOILER MAKERS.—The
BIRMINGHAM PATENT IRON TUBE COMPANY
MANUFACTURE PATENT LAP-WELDED IRON TUBES (under Mr. R. Prosser's
Patent) for Marine, Locomotive, and all Tubular Boilers. Also, TUBES for Gas, Steam,
and other purposes. All sorts of IRON GAS FITTINGS.

LONDON WARE-MORTHWICK, new Birmingham.

LONDON WAREHOUSE—No. 8, Upper Thame.-street.

WANTED,—REFINER, OR SMELTER, OF COPPER and SILVER-LEAD ORES.—The ADVERTISER is desirous of a SITUATION, either at home or abroad. He has had considerable experience in the above capacities, and acquired his knowledge of smelling these ores in Germany, according to the German method; he has also had great success in the conversion of siag and antimonial lead into soft lead (with a perfect knowledge of book-keeping). The highest testimonials as is character and ability will be given.—Address by letter (on foreign paper, post-paid), to "J. G.," Post-office, Little Sussex-place, Hyde-park Gardens.

TO MERCHANTS AND OTHERS.—The ADVERTISER, who has been for a number of years CONFIDENTIAL and MANAGING CLERK
a a merchant's office, where the accounts were kept by "double entry," is desirous of
bbtaining SIMILAB EMPLOYMENT, either at home or abroad. He is also practically
equalisted with the mode of working Cornish mines, and the manner of keeping mine
counts. References unexceptionable.—Address "S. C. B.," care of the Editor of the

TO CHEMICAL WORKS, AGENTS, &c.-The PROPRIE-TORS of a CHEMICAL WORKS in Glamorganshire are IN WANT of a COM-PETENT MANAGER, well acquainted with the manufacture of all sortis of chemicals, charcoal, &c.—Address to "S. L.," Post-office, Swansea.—February 8.

WANTED,—A CONDENSING ENGINE, of from 30 to 40-horse power, either NEW or SECOND BAND, suitable for pumping water. Dee on neite cornials plan would be preferred.—For particulars apply to J. C. Birkinahaw,

SECOND-HAND ENGINE WANTED.—WANTED
IMMEDIATELY, a SECOND-HAND STEAM-ENGINE, of 8 or 10-horse power,
with tubular boiler, and to stand upon a wooden frame.—Apply to the Black Craig Mining
Company, near Nowton Stewart, Scotland; or to Mr. William Muschamp, Derwent
Lodge, Sunderland.

PUMP TO BE SOLD.—A PUMP, in first-rate condition, 12-inch in the bore, 4 feet stroke, with buckets, connecting-rodes, sildes, and bell crank, complete. Lowest price £30.—Apply to F. Wiggin & Co., Strond, Gloucestershire. FOR SALE, a 6-horse power TABLE STEAM-ENGINE, nearly now, with the entire fittings, complete—Price, £75.

Apply to Mr. C. S. Richardson, C.E., 5, Whitefriars-street, London.

FOR SALE, a SECOND-HAND 60-horse HIGH-PRES-SURE PUMPING ENGINE, 30-inch cylinder, 7-ft. stroke, with two large boilers, in excellent condition. Also, a 10-horse ATMOSPHERIC DRAWING-ENGINE, with boiler, eog-wheels, and drum—the cylinder constructed so as to be easily altered into a 20-horse condensing engine. Also, a LOT of 15-unch PUMPS. Apply to Mr. William Clark, Holmes Colliery, Rotherham, Yorkshire.

TO BE SOLD, a PUMPING-ENGINE, 30-inch cylinder, 9 ft.

atroke, built by Mr. West, engineer, nearly new—only been worked about three years—no engine ever done better duty when at work: together with a SEVEN-TON BOILER, SPRING BEAM, and first set of rod-shaft attached, for £400. The engine is within a few miles of a good slipping port, being near Liskeard—one good road.—For particulars apply to Capt. Osburn, Liskeard, or Mr. Wm. Rendle, Octagon, Plymouth.

TO COLLIERY OWNERS, CONTRACTORS, QUARRY—MEN, AND OTHERS.—FOR SALE, a QUANTITY of SECOND-HAND EARTH WAGGON AXLES, FLAT PIT ROPE, TRAVELLING and STATIONARY CRANES, IRON and WOODEN SHEAR BLOCKS, CHAIN, PICKS, PINCH BARS, HAMMERS, and WEDGES—all in excellent repair, and at extremely moderate prices, delivered, Apply to Mossers, John Stephenson and Co., Railway Contractors' Office, Perth. Perth, Jan. 31, 4849.

GROWA SLATE COMPANY.—PERSONS desirous of be-coming AGENTS for this COMPANY in the different TOWNS and SEAPORTS, are requested to apply by letter, addressed to the purser, at the edites, 57, Threadneeds-treet, London, where prospectuses and every information may be obtained. EAST BIRCH TOR TIN MINE.—APPLICATIONS for

the FEW SHARES in this COMPANY rem secretary, 2, Winchester-buildings.

RUNNAFORD COOMBE MINE.—An excellent opportunity is now OFFERED to any person wishing to PURCHASE SHARES in the above railuable concern.—Mr. BROUGHTON has FOR SALE a FEW SHARES, very cheap.

Apply to Mr. Broughten, 30, Taylor's-buildings, Woolwich.

TALARGOCH LEAD MINES.—TO BE SOLD, BY
PRIVATE TREATY, a NUMBER OF SHARES in the celebrated TALARGOCH
LEAD MINES, which have been in operation many years, and yielding several thousand
tons of lead ore per annum. The above mines are replete with every requisite for carrying on much more extensive works; to effect which, an outlay in machinery, ongines,
pumps, &c., to the amount of upwards of \$20,000 has recently been made.
Applications, addressed to Mr. J. Jones, underground agent, Talargorch, near Rhyll,
Flintshire, will meet with immediate attention.

MINING PROPERTY.—Mr. JAMES HERRON, MINE AGENT, 33, CLEMENTS-LANE, LOMBARD-STREET, has received instructions to DISPOSE of SHARES in FIRST CLASS MINES, paying regular dividends, and yielding to the purchaser from 17½ to 25 per cent. upon his outlay. He is also in a position to transact business in the following—viz.: St. John del Rey, Tamar, Treviskey and Barrier, Great Devon Consols, Alten, Australian, Condurrow, East Wheal Rose, and Wheal Scton Mines.

MINING OFFICES, THREE KING'S COURT, LOMBARD ATRICES, LINEAR AND SOURT, LOMBARD

STREET, LONDON.—Messrs. R. TREDINNICK & CO. beg to draw the attention of capitalists to the DEPRESSED MARKET VALUE of SHARES in ENGLISH and FOREIGN MINES, many of which pay dividends of from 30 to 30 per cent. per annum, whilst those on the eve of so doing are selling at corresponding low prices.—Messrs. T. & Co. continue to DEAL in every description of MINING, RAILWAY, BANKING, INSU-RANCE, CANAL, and OTHER SHARES.—Statistical information afforded gratuitously, upon personal application.—MONEY ADVANCED upon the above securities.

MINING OFFICES, No. 8, GEORGE-YARD, LOMBARDSTREET, LONDON.—Mr. RICHARD THOMAS (who has had 20 years' experience as a mining agent in London) OFFERS his SERVICES in the PURCHASE and SALE of MINE and OTHER SHARES, on commission. Purchases in many valuable mines may now be made at unprecedently low prices. The fullest information given (without charge) relative to mining investments and operations.

N.B.—R. T. has now ON SALE a limited number of SHARES in an undertaking offering unusual advantages, situated in one of the best mining districts in Cornwall.

Full particulars will be furnished on application.

MR. THOS. P. THOMAS, MINING AGENT, AND DEALER IN RAILWAY, GAS. BANK, INSURANCE AND AND AND DEALER

IN RAILWAY, GAS, BANK, INSURANCE, AND OTHER SHARES.

3. GEOGRE-YARD, LOMBARD-STREET, LONDON,

T. P. THOMAS is a SELLER of SHARES in the leading MINES of Cornwall, Devon, and Wales—paying from 10 to 30 per cent.—Statistical information afforded upon personal application, or by letter.

MR. GEORGE BATE, JUN., CIVIL ENGINEER AND SURVEYOR, WOLVERHAMPTON.
Offices in Queen-street, colner of Piper's-row,
N.B.—UNDERGRUUND MINING SURVEYS accurately executed.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON.

MONEY.—MESSRS. KILLICK & CO. (late Winstanley, KILLICE, & CO.), SHAREBROKERS, inform their friends and the public, they IMMEDIATE ADVANCES, to any amount, on the deposit of English and Fo-Railway Shares, Scrip, and Debentures, upon exceedingly advantageous terms too BUY and SELL every description of STOCK and MINING SHARES, at much ommission than usually charged,—6, Bank Chambers, opposite Bank of England.

BANWEN IRON COMPANY.—Notice is hereby given, that
the next HALF-YEARLY ORDINARY GENERAL MEETING of the shareholders
of this company will be held at their offices, 23, Threadneedle-street, London, on Monday,
February 26, instant, at Two o'clock precisely.

By order,
23, Threadneedle-street, February 15, 1849.

S. P. HARRIS, Secretary.

REAL DEL MONTE MINING COMPANY.—Notice is hereby given, that a MEETING of PERSONS INTERESTED in PURCHASING and CARRYING ON the MINING WORKS at REAL DEL MONTE, will be HELD at the George and Vulture Tavern, George-yard, Lombard-street, on Trueday, the 27th of February inst., at Two o'clock precisely, for the purpose of hearing a rejuct on the actual state of the property, and of considering the expediency of forming a new company.

Law Intelligence.

HARDY'S AXLETRIES FOR RAILWAY-CARRIAGES—EXTENSION OF PATENT.

Junicial Committee of the Priva Coursels—Fig. 12.

Mr. Hill, on behalf of the patentee, James Hardy, and of his assignees, Messrs. Charles Geach and Thomas Walker, applied to their Lordahips for an extension of the patent for a term of seven years. In the year 1835, Mr. Hardy obtained a patent for certain improvements in the making of algebrees for railway carriages. At first he attempted to work the patent himself; but the result was, that he lost the whole of his fortune, and had since entered the church, in which he at present had a curacy worth about 100f. a year. For several years he was encumbered with a number of partners, and his attempts to pay them only sumh him istro desper difficulties, until he finally made over to Messrs. Gesch and Walker his interest in the invention, in 1844; and since then he had no connection with it, and derived no profit from it. The specification attached to the patent declared that the improvements in the making of axiserees consisted in giving to have of iron, in a heated state, poculiar shapes, by means of roiling, in order that a series of such bars, when combined in close lateral contact, should form a cylindrical figure; second, in combining, in a way similar to that stechnically called faggriting, a series of such per culiarly shaped bars, as segmental portions of a cylinder; and, after heating such combined series of bars in a farnace to the proper welding heat, passing them between rollers, for the purpose of bringing the particles of metal into a state of perfect cohesion; third, in working such combined bars between epilastical dies, under a till-hammer or metal helve, for the purpose of condensing or hardening the metal, and giving it the required farm. By means of those improvements the qualities requisite in shafts, of stiffness, tenacity, and strength, or capability of redsting strain, tenalon, and pressure equally on all sides, were obtained in a remarkable degree. The mode of making add selected

is patent for that peried.

Several witnesses were then called, who proved the superiority of this axie over all there, for railway purposes, the process through which is went rendering it fibrous all rough, while the iron in the old axie was frequently found crystallised in the centre, was also shown that the new sake could be manufactured and sold at a cheaper rate are he old one; that the demand had decreased very much since 1847; that, consecutly, the profits were, and would be, smaller, and that the depreciation of plant would ount to 16,000%, if the concern where they were made were to be sold immediately, a the whole, counsel submitted to their Lordships that the present holders were entitled an extension of the patent, which would give them further remuneration for the out-A consultation having taken place between them.

to an extension of the patent, which would give thom further remuneration for the outlay they had incurred.

A consultation having taken place between the members of the council, Lord Fadurana said, that the Court, having maturely considered the merits of the case, were of opinion that an extension of the patent should be granted. The assignees must, however, execute an instrument slipulating the price of the patented articles during the extension of the patent from the patent should be granted. The assignees must, however, execute an instrument slipulating the price of the patented articles during the extension of the patent. His Lordship, after highly eulogising the great value of the invention, concluded by saying that, providing these conditions were compiled with, the Court would grant an extension of the patent for four years, and, in order to give time for the preparation of the document, posiponed the final election of the case until Thursday.

In the House of Lords, Lord Baoconan took occasion to advert to the subject, and made the following important alusion to the invention: he said—"He availed himself of the opportunity to give railway directors generally a hint, to which it would be highly for their interest to attend. In the Court of Privy Council a case had been decided that day, in which the great superiority of Hardy's patent axie for railway carriage, over all others, had been indisputably demonstrated. Nothing could be more satisfactory than the succession of the experiments which had been made before the Privy Council. An unmaniful great weight was placed on the axie, and a shock of the most startling magnitude was given to the carriage. That patent axie was been into a completely circular shape, without a single fracture being visible in it; indeed, it was as good an axie, in point of solidity, after the accident as before it. Out of 50 other common axies which were submitted to the same shock, only two were able to stand it. He complained that the directors of railways arisinent axies, whi

worn out. He took this opportunity of letting this race be known to the accessing and Heath should ensue hereafter from the breaking of an axie, he know well what the verdict of a jury would be.

RIGHTS OF OWNERS OF COLLERIES.

COURT OF CORNOS PLEAS.—FER. 15.

SETH F. KENRICK.—The Court, in delivering judgment, said this was an action on the case tried at the Spring Assize, at Choster, when a verdict passed for the plaintiff, subject to a special case. The declaration in substance alleged that plaintiff was possessed of a colliery, called Pais Bennion, in the country of Dembigh, and that one Jones was formerly possessed of the adjacent colliery, called Avon Either Colliery, when Jones, in extracting cond, made large holes in a vertical sacen of coal, which acted as a barrier between the two mines; that the defendant succeeded Jones in the possession of the Avon Bither Colliery, and that by reason of Jones's acts, the plaintiff's mine became liable to be immediated with water, from the mine of the detendant; that the defendant, by reason of his possession of the neighbouring mine, was bound to prevent the water from flowing into the plaintiff's mine; and the declaration time charged him with wrongfully omitting to do so, whereby the plaintiff and been in possession of Plas Bennion many years and the defendant of Avon Either since 1844. The latter colliery was removal of large quantities of coal. The boundary state 1844 is the latter colliery was removal of large quantities of coal. The boundary state 1844 is the latter colliery was removal of large outlines large holes called "curlings" through the boundary seam of coal, which had been improperly made by Jones. In the defendant colliery there was a large subterraneau body of water on a higher level than the chambers for Plas Bennion. The body of water was fed by natural springs, and was separated from the chambers of Avon Either, there colliery by a thick horizontal bar of coal, part of that colliery. In 1845 the defendant removed the horizontal bar of coal in h

On the Manusacture of the Celebrated Damascus Blades.—Nicolo Milonas, for some time consul in the east, in endeavouring to discover the process employed by the Kourdes, in the manufacture of their sword blades, observed:—I. That the manufactories in which these blades were made were situated at the declivity of the mountains, near cascades, the water of which, falling from rock to ruck, arrived in the most limped state in the reservoirs constructed for its reception, in which reservoirs the blades are tempered. These reservoirs are themselves placed in situations were the air is very pure. These conditions of purity of air and water are employed being received fine operation.—2. Iron of the purest quality is selected. Submitted to a very high temperature, the first tempering is commenced when the iron is at a white heat; the metal is exposed before fusion, the fuel employed being placed on each side of it; the red hot iron is then covered as quickly as possible with faity and oily matters, pasts made from bones, wax, &c. This operation ends, according to the manufacturers, to render the blade flexible. The second tempering is performed by the same process, with this difference, that the heated iron, after having thrown off considerable quantities of sparks, and having been exposed, is covered with a paste composed of powdered bones, and purified mutton sust. The third tempering is effected, by disposing the metal in such a manner, that it may be seized by a man on-horseback, who rides at full gallop in order that the blade which he keeps in an elevated position may receive the impression of the air.—3. The feel employed is anthracite and turf. In order to obtain favourable results, it is necessary to use fuel entirely free from sulphur, and combine as much as possible, the heating of animal, vegetable, and mineral substances. ON THE MANUFACTURE OF THE CELEBRATED DAMASCUS BLADES.

Transactions of Scientific Bodies.

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N	MEETINGS DURING THE ENSUING WHEK.
	Tim DAT Asiatip 5, New Burlingion-street
	Monday Statistical 419, St. Haron Segure
5	British Architects-16, Grosvenor-street 8 P.M.
r	Chemical Society of Arts, Adelphi 8 P.M.
	Medical—Bult-court, Floot-street
•	Pathological-21, Regent-street, Waterloo-place 8 F.M.
1	Terspay Linnsan-Soho-square
	Horitcultural—21, Regent-street
i	Civil Engineers-25, Great George-street 8 FM.
ò	WEDNESDAY Society of Arts-Adelphit
	Geological—Somerset-house
	THURSDAY Royal Someract-house 84 P.M.
r.i	Antiquation - Somemet-house, and a service of the Park
Ü	Royal Society of Literature - St. Martin's -nlace A P. W.
	Numismatic-41, Tavistock-street, Covent-garden 7 P.M.
	FRIDAY Royal Institution - Albemarle-street Sl. P. W.
3	Philological-London Library, 12, St. James's square 8 P.M.
. 1	SATURDAY Royal Botanic Inner Circle, Regent's Park 31 P.M.
4	Westminster Medical -17, Saville-row 8 P.M.
	A STATE OF THE PROPERTY OF THE

On the Coal-Field of South Blales.

At the Institution of Civil Engineers, on Tuesday last, Mr. JOSHUA RICHARDSON, M. Inst. C.E., read a paper on this subject: he commenced by enforcing the necessity for an unbounded supply of fuel for the export trade, the manufactures, and the domestic uses of Great Britain, and enumerating various sources from whence that supply was at present, and might be in future, obtained; giving, at the same time, the various and discord ant opinions of eminent authorities as to the presumed duration of that supply from the several mineral districts of which the extent was now as certained. This was variously stated by different authorities at between 200 years and 1700 years; but Mr. Richardson ventured to assert that, in

Went. The m	ctum annuar consump	STOR MARS SHOME IN	0 00-	
In the iron-work	ks of South Wales		ms 1,500,000	
The copper-worl	ks	************	** 300,000	
	d other works			
In agricultural s	and domestic uses		1,000,000	
Exports	***********	**********	1,500,000	
and a street	The State of the S		-	

The useful and evaporative qualities of the various veins were carefully

THIVES	mgateu, and it was shown, in a more or relative evap	OLWI	TAG ATTITU	ca, st
	1 lb. of Welsh coal will evaporate 1 lb. of Newcastle and Yorkshire coal	78	s. of water	r.
And	I lb. of Scotch coal			
Store 1	Welsh coal was worth	16s. 15s.	8d. "	n.

Scotch

The coals of Staffordshire and Derbyshire were not taken into consideration, because they were used chiefly for the consumption by home manufacturers.—From these, and other statements, and from extracts from Sir Henry de la Beche and Dr. Lyon Playfair's able Report on Steam Coal for the Navy—which a succinct abstract cannot embrace—it was shown, that the Welsh coal excelled all others for steam purposes, and for almost all uses to which it was applied; and that, when all other sources of supply had diminished, or had failed, the prosperity of the manufactures and the commerce of Great Britain might be maintained for ages by the coal-field of South Wales.

of South Wales.

A very animated discuss A very animated discussion ensued, in which several eminent engineers and chemists reasoned upon the statements in the paper, and the contested questions of the evaporative powers of different fuels.

[The discussion was announced to be continued at the next meeting of Tuesday, 20th February, when "An Account of the Explosion at the Eaglesbush Colliery, Neath," by Mr. Joshua Elchardson, would be read.]

Sold in California, and other Countries.

At the Society of Arts, on Wednesday evening, Mr. TENNANT, F.G.S. ad a paper "On the Different Mineral Substances, which may be found with gold in various parts of the world, (including those from California) but which have hitherto been overlooked." At eight o'clock, Baron Gold-SMID took the chair. The secretary, after reading the minutes of the last meeting, which were confirmed, alluded to the interesting paper which had been read at the last meeting, by Mr. Highton, "On the Electric Telegraph," and adverting to the fact that the Society had been the first to ingraph," and adverting to the fact that the Society had been the first to introduce to the notice of the public that valuable material, gutta percha, stated, he believed the time was not far distant when, through its agency, a submarine communication would be established between England and Ireland, as well as France and England; and produced, for the inspection of the members, a combination of six copper wires, separately insulated by a new process, and twisted together into a rope, by which the insulation of each wire is secured, and the whole rendered exceedingly strong and compact, and in this state it would be placed at the bottom of the sea, thus forming a submarine communication. The specimen was sent by Mr. Francis Whishaw.

Mr. Tennant commenced by observing, that the Californian gold was similar to that found in the Brazils, but lighter in colours the gristeness of

Mr. Francis Whishaw.

Mr. Tennant commenced by observing, that the Californian gold was similar to that found in the Brazils, but lighter in colour; the existence of gold in that country had been known for centuries, the first discoverer of it having been Sir Francis Drake; various substances had likewise been found there, such as mica (which might be seen in the grantie in the streets), copper, and iron pyrites, much resembling gold in colour; the disappointment consequent on the discovery of this, had, probably, disgusted the first adventurers, who had abandoned it without further attempts to prosecute and explore the sources from whence it was derived—that, probably the gold had been lying there for ages. Such may occur in any new country—for instance, Australia, Borneo, or India. Gold was first discovered in the Brazils in the beds of rivers, by washing the alluvial soil; he had himself gold had been lying there for ages. Such may occur in any new country—
for instance, Australia, Borneo, or India. Gold was first discovered in the
Brazils in the beds of rivers, by washing the alluvial soit; he had himself
seen particles of gold in the Grampian Hills, but he doubted much whether
it would pay the expense of working—they might get 11, but it would cost
21. 10s. Gold was likewise found in Wales in sulphuret of zinc, and in
Cornwall among tin. Mr. Tennant here exhibited several specimens of
gold; these consisted of—1. Foliated gold with quartz, from Mexico.—
2. Crystalised gold.—3. A round peeble, weighing 9 cas. 14 dwis., containing over 6 czs. of gold; both these, from Brazil, had formed part of
the Stowe collection.—4. Gold from Cornwall.—5. Gold in sulphuret of
sinc, from the Hwnyswn mine, in Merionethshire, besides several specimens of granular gold from the west coast of South America, Africa, and
California. According to assay, furnished by Mr. Henry, the gold of
California, of 100 parts, was composed of—gold, 88.75; silver, 8.88; coppres. 0.95; siliceous residue, 1.40—99.88.

In Brazil, according to Mawe, eight men lead, in four hours, obtained
203 ounces of gold from a portion of soil not two tons weight, taken from
a deep hole at the bottom of the river. He should not be surprised to hear
that diamonds, rubies, emeralds, sapphires, and other precious stones, were
to be found intermixed with the gold; and to this, should there be any
adventurous parties at present in the Institution, who thought of going to
California, he wished particularly to draw their attention, that while rhey
were seeking for gold, probably more valuable substances might be overlooked. The average value of gold was about 50.{; while, if free from defects,
flaws, &c., they were of greater value. He had, therefore, taken Jeffries'
estimated value of pure diamonds, and this was generally considered the
best. Diamonds were in general weighed by the carat, which was a term

well known to jewellers, and equivalent to 4 grs. Thus a diamond of-

well known to jewellers, and equipments to a great summer and the summer and the

than quartz.

Dr. Mantell required of Mr. Tennant some further explanation of the formation of gold and of the diamond.—Mr. Tennant said, that gold was found in quartzose veins. The rock was argillaceons schist, which readily decomposes. That no doubt electricity had been at work. It was impossible to say how Nature was working in her large laboratory. The lighter particles were washed out, and the great body of the gold remained behind. So much had already been written in the newspapers about the formation of gold, that he considered it unnecessary for him to further all ude to it. With regard to the diamond, a distinguished chemist had devoted several months to its study, and was about to publish on its properties, which, coming from so eminent a man, he had no doubt would throw a great light on the subject—the gentleman he alluded to was Mr. Faraday.—Mr. Tennant concluded his paper amid the prolonged cheers of his audience.

of his audience.

Dr. Mantell observed that, seconding to Sir Roderick Murchison's work, gold had been discovered in diluvial deposits in Siberia; and these wore generally the richest. His opinion was, that the Ural Mountains had risen in that convulsion; and that he believed large deposits of gold existed in the rocks, and had been there for ages, at the same period when those large animals, now extinct, and which they knew had existed there from their carcasses having been found imbedded in ice. If he went to California, he should seek the place where the largest pieces were to be found; and, by tracing that, endeavour to come to the fountain head. The diamond had been considered to be a crystallised gum, or resin, from a plant. It was known to be pure carbon; and, when consumed, the residue was like charcoal from a piece of wood. Sir Isnac Newton was of the same opinion of the gem—the refraction of the light being the same as on opal and am ber, which were both substances of a vegetable nature.

After a few observations from Mr. Percuval Johnson, who stated, that

the same opinion of the gem—the refraction of the light being the same as on opal and am ber, which were both substances of a vegetable nature.

After a few observations from Mr. Percival Johnson, who stated, that as they got deeper in the mines the gold diminished. Baron Goldsand apologised for addressing the society, and stated, that his only motive in doing so was, to caution those young people who might not only be risking their fortunes, but their lives, by going to California. When the gold mines were first stated here, a company, with which he was connected, had raised 1,000,000l to trace the gold veins. The shares were issued at 10l; and so great was the mania, that, before a week was over, they were worth 60l; and this before a single grain of gold had been acquired. The produce of the different companies he had obtained. The Imperial Brasilian, in 25 years, had produced 1,500,000l; Morro Vello, in 10 years, 416,000l; and the Cata Branca, in the same period, 240,000l. That at this time, after 25 years' work, they had obtained their money back, with 5 per cent. for the last 10 or 12 years; and the mine was now exhausted. The only benefit it had been to science, was the discovery of palladium, which had been applied to telescopes for astromonical purposes.

The thanks of the society were voted to Mr. Tennant for his interesting paper. Several diagrams of the different crystals of diamonds, topaz, and quartz, as well as others, giving their component parts, were exhibited

The tramroads of the Monmouthshire Railway and Canal Company are to be converted into a locomotive line on and after the 1st of August next.

OPENING OF THE DUBLIS AND BELFAST EXTENSION.—This extension was opened on the 8th inst. from the junction station at Newfoundwell, near Drogheda, to the town of Dundalk, passing through Dunleer, and Castle Bellingham. The opening would have been earlier, but for the unsual floods in the White River carrying away the bridge near Dunleer. The constructive cast, including stations, but exclusive of working stock, has not exceeded 10,000f. per mile for a single line, with the isnd purchased and earthworks completed for a double one.

As Angels in Turk Beausy Currency Hardward Chroscowski, Privale Privale

single line, with the land purchased and earthworks completed for a double one.

An Arscess in the Break Curren by Holloway's Ornerkent and Phils.

—About three years since, Mrs. O'Flaherty, of Mil-street, Cork, accidentally bruised her breast. For months afterwards the pain increased, and the part because fearfully swollen various applications were tried without giving the least relief, ultimately an above formed, discharging a great quantity of humour, which debutlated her constitution to an alarming extent; at this stage, a lady strongly recommended her to try Holloway's oriment and pills, having witnessed their good effects on former occasions, which advice sine followed, and these fine medicious answered mass: assistanticity, for the wound was soon healed, and her bestit is no w completely convexed. Sold-by all druggists, and at Professor Holloway's establishment, 244, Strand, London.

The Metallurgical Treatment of Ores.

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By John Mitchell, Eq., M.C.S., author of A Manual of Practical Assaying, &c. &c.
No. XXXI.—Continued from January 13.]

As shown in the last paper, the carbonaceous matters obtained during the solution of iron in acids are very variable in their nature. Pure carbon, or graphite, is obtainable only from grey iron, and the manner in which it behaves, during its separation from the metallic mass by solution, shows that it merely exists in mechanical combination; but the graphitous substance obtained from untempered steel, from ductile or malleable iron, and from certain samples of nntempered steel, from ductile or malleable iron, and from certain samples of grey iron, and which is so readily decomposible by acids, is not pure carbon, but is a compound of carbon and iron; the proportion of the former has, however, not yet been accurately determined, but experiments on this point are now being conducted. Until this point is determined, the compound in question may be termed a polycarburet. This matter must not, however, be confounded with the browniah black residue obtained from tempered steel and white iron, by the action of hydrochloric and sulphuric acids, and which is converted into a reddish brown powder by the action of nitric acid. The polycarburet gives from 82 to 94 per cent. of oxide of iron by burning; a sextocarburet—that is to say, a compound of one atom of metal and six atoms of carbon, Fe Ce—gives, by calculation, 86-5 of oxide.

On the Action of the Alkaliss on Iron.—The fixed alkalies are without action both on iron and its oxides in the wet way; it even appears that their presence retards the decomposition of water. At a red heat, potash and sods are deoxidised by iron. On the other hand, cast-iron, fused with the alkalies, is at first converted into a steely iron, and, lastly, into pure iron, because the carbon alone is employed in the reduction. Experiment seems to show that the alkalies and their metals exercise no noxious influence on the quality of iron. For instance, a gun-barrel which had been employed many times for the decomposition of potash in the preparation of potassium, and which had deoxidised a considerable quantity, forged exceedingly well, and was neither hot or cold short.

On the Action of Earthy Matters on Iron.—Of all earthy matters, the nature

died a considerable quantity, torgue accessment vive the considerable quantity, torgue accessment vive the considerable quantity of allica seems to have been meat deeply studied. Berzelius combined allicon with iron, by cementing iron tiling with finely-propedered silica and charcoal. The iron alloyed in this operation with the silicon, as, under similar circumstations of iron; but it diminishes the specific gravity. Iron containing silicon gives, by decomposing water, more hydrogen gas han others; this can be very readily applicable—for silicon in containing reading the content of th

bonaceous matter. We may thus learn that carbon is contained in iron in three different states—1. As free carbon, or graphite.—2. Combined with the whole mass of the iron.—3. As polycarburet, dissolved in the whole mass. It will be noticed that this view differs slightly from that already put forth by the author; but it seems to meet all cases better than that before given. In next week's Journal, this resumé will be continued.

the author; but it seems to meet all cases botter than that before given.

In next week's Journal, this resume will be continued.

Gold Mining in California during the week, but all communications tend to confirm the reports of the not only undiminished, but the increasing produce of the precious metals. France appears at length to have aroused at the discovery of the value of this metallic deposit, and reports have been transmitted to the French Government by the consuls in Upper California, and in the various parts of the United States, relative to the gold and quicksliver mines lately discovered in the former country. In consequence, the Ministers of Marine, Foreign Affairs, and Public Works, having placed together the documents, received from the French representatives in America, submitted them to a special council of men skilled in mineralsgy, and charged with the task of suggesting such measures as it might deem advisable to take in the interest of French industry. It has been decided by the Government, that an engineer of mines should at once proceed to California, to examine the nature of the country, and, from actual experience, send home accounts of a nature to enlighten French commerce as to the real state of the case. In consequence of that decision, orders were at once transmitted to Brest, to prepare a vessel to carry out the engineer in question. By a communication from Panama, we learn that a gentleman, who is a botanist and a passenger on board Her Majestry's frigate, Constance, went from the Bay of San Francisco to the Sacramento to gather plants, or bubs. He unexpectedly came upon the gold deposits, and with only the trowel with which he dug for flower roots, he realised \$1500 worth of gold-dust in three days. One of the largest pieces, weighing 15 oz., he presented to the captain of the frigate. From the report of the governor Mason, that the Mormons had, up to the time of its general discovery by Europeans in August last, some rare pickings; and it is sestimated by Governor Mason, that the

mention, and which is especially worthy consideration—that the last advices from Hamburgh report an advance in the price of gold, although from the extraordinary reports of the produce of California, we might naturally have predicted a contrary movement.

California Colorization.—By the politeness of a London friend, we have been put in possession of a prospectus for forming a company in London to carry on the above-named object. The projecters propose immediately to send two agents to Washington to obtain a grant of land in Upper California; their objects are to sattle a colony on the spot, and open a trade between the golden region and this country. In aid of these, they propose to provide ships and provisions for emigrants, erect warehouses on the spot for the reception of goods, and to build houses, &c., for the emigrants, that they shall find a shelter in the land of gold. The contemplated capital is half-a-million, divided into 104 shares, upon which IA per share is to be deposited. The office is 6, Finsbury-square, London; the secretary, Robert Williams, Esq. We think this company are going the right way to work—viz. to secure land, and the right to work the mines, by negotiation with the United States Gavernment. The system of synatting where gold is in abundance is but a hazardous experiment at the best, destined in the end to be frustrated and annihilated by the American Government, when it shall come to exert its power over that remote region. An investment of this kind—unlike the thousand-and-one railway schemes—cannot prove otherwise than profitable to those concerned in it. The mere purchase of wild land in a new country, where no gold is to be found, is the most money-making investment ever made by Europeans in the western world. We remember, as early as 1801, a few wealthy merchants in Amsterdam purchased an immense tract of country, bounded on the Niagara River and Lake Eric, and stretching 80 miles east of shees. In 20 years after the purchase the land was more than 40 times the value of the s

accomplish it.—Isle of Man Times, Feb. 10.

GOLD IN SOCILAND.—It may not be generally known that gold is to be found in Sociland. Gold dust was gathered in the river, near Crawford, in Lanarkshire, in the reign of Queen Elizabeth; and since, by the Earl of Hopetoun, at Leadhills, to little profit. It was also dug in Bathgate hills, Linlithgowshire; in Perthshire, and other parts of the country. It is still to be found on the tops of the rocks, and also mixed with other metals; but the searching for it is rather a matter of amusement than of serious occupation. Our ancestors had the good sense to discover a better kind of diggings—viz.: the application of the spade and the plough to our then barren soil, and of the result let those judge who choose, by an inspection of our rich fields and cultivated farms, or we may refer to the well-known character of our farmers and Soctch gardeners.—Correspondent of Kelso Mail.

Sixyer Mayer.—The working of the ellipse and lead mines at Combrastic.

judge who choose, by an inspection of our rich fields and cultivated farms, or we may refer to the well-known character of our farmers and Scotch gardeners.

—Correspondent of Kelso Mail.

Silver Mines.—The working of the silver and lead mines at Combmartin, which were recently abandoned by the late shareholders, have been resumed by a London Company under very favourable circumstances.—Exeter Gazette.

New Printing Telegoraph, on the hydraulic principle, the invention of Mr. W. H. French, of Cardiff, which, for simplicity and certainty, is far superior to any other, either hydraulic or electric, that has yet come under our notice. The invention being as yet unpatented, we cannot, of course, go into any description of it; but we may state that, without the use of any arbitrary signs, or the necessity of receiving answers from the various stations as to whether or not a message can be understood, a communication can be made, at the will of the operator, to one, two, three, or a dozen stations on the main line or branches of a given district of country, which will be legibly printed on a slip of paper, something like the column of a newspaper, to any lergth, or a conversation can be carried on on the same paper between two points—the intermediate stations, by a simple contrivance, being thrown out of the line of communication. One advantage of this system is, that the telegraph becomes the registrar of the communication, and prevents any dispute as to its real import; while another, and, perhaps the most important is, that should an attendant at any station be absent from his duty he will, should any message be given in the mean time, find it on his return legibly printed in the ordinary character, a bell continuing to ring from the commencement of the communication being made until observed by the attendant, and, to use a familiar expression, thrown by him out of gear. On point of economy this telegraph must, when patented, excite universal attention, as it can be exceted for less than one fourth the charge of t

COMMUNICATION BETWEEN THE ATLANTIC AND PACIFIC

COMMUNICATION BETWEEN THE ATLANTIC AND PACIFIC OCEANS.

The great excitement caused by the discovery of gold in California has again turned the attention of the public to this important question, and there seems every probability that the hilberto-excisting difficulties have been overcome, and that the long-desired communication between the two great oceans is in a fair way to be accomplished. Articles of agreement for the construction of a ratify ay acrose the istmus have been entered into and dnly signed. The contractors are Mesers, Aspenvall, Stephens, and Channay. The line is to be completed within three years. There is no doubt that this will open up a vast extent of hilberto unexplored territory—and, probably, rich in mineral treasuragreaty facilitate and extend our commerce with the Pacific, by throwing open new and exister means of access, and carre out fresh channels for the profitable employment of explicat and industry.

In the comment of the comment with satisfaction, we cenceive this is only the first step towards a still further development of the resources which Nature has a bountfully placed in the Americas; and we have no doubt that, in a few years, this will be followed by a canal. To England, in a commercial point of view, this is of the greatent importance; at present our results have either to encounter the dangerous passage of the property of the

THE SILVER MINES OF GUADALCANAL, IN SPAIN. CHRISTMAS IN THE SIERRA-MORENA.

[The following article, copied from a Spanish newspaper, contains some account of the prodeedings of an English Company, who have leased the celebrated silver mines of Guadalcanal, in Saville, in Spain, which have been under water for a period of 150 years 1 Before that time they produced to the Spanish Government 100,000, per annum in duties alone, and from the proceeds of these, the palace of the Escurial was built. They were the property of the Pachars, rich contractors, who, not satisfied with the encrmous weath they derived from them, secrelly took away the ores from a new look flary discovered that they derived from them, secrelly took away the ores from a new look flary discovered that they derived from them, secrelly took away the ores from a new look flary discovered that they derived from them, secrelly took away the ores from a new look flary discovered that they derived from them, secrelly took away the ores from a new look flary discovered them to the secretary of [The following article, copied from a Spanish newspaper, contains some account of the rodeedings of an English Company, who have leased the celebrated allver mines of uadalcanal, in Seville, in Spain, which have been under water for a period of 180 years !

REGISTRATION OF RAILWAY SHARES.—So much inconvenience and loss have been suffered and felt by the sellers of railway shares, through the non-registration, in the companies' books, of the transfer on the part of their purchasers during the period of falling prices in shares, that very great satisfaction is expressed on the Stock Exchange at the decision of Vice-Chancellor Knight Bruce in the case of Wynne o. Price. The learned judge decided, in substance, that the buyer of shares, even though he bought them of a jobber, was bound to register, and was liable for all loss that the seller experienced by his failure to register. Little doubt had been felt that such was the law, but the absence of the express decision had given defaulting or dishonest parties the excuse for not fulfilling their engagements. All doubt is now removed, and the practice (which was very prevalent at Leeds, and some other northern towns) will, it is to be hoped, be now exploded.

Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

Duckinghausshire Hailway—Euston Station, at One.
Boston, Stamford, and Birmingham Railway—offices, at Twelve.
Boston, Stamford, and Birmingham Railway—offices, at Twelve.
East Indian Railway—London Tavern, at One.
Shipowners "Towing Company—offices, at Trelve.
Brighton and Chichester Railway—London-bridge Terminus, at Ten.
Condurrow Mining Company—at the nalse.
Windsor, Staines, and South-Western Railway—offices, at One.
London and Blackwall Railway—London Tavern, at Twelve.
Cork and Waterford Railway—London Tavern, at Twelve for One.
Barossa Rango Mining Company—offices, at Twelve.
Phemix Gas-Light and Coke Company—London-bridge House Hotel, at
Twelve for One.

Pricents Gas-Light and Coke Company—London-bridge House Hotel, at Twelve for One.

Northern and Eastern Railway—offices, at One.

Northern and Eastern Railway—offices, at One.

East Lincolnshire Railway—offices, at Eleven.

Equity and Law Life Assurance Company—offices, at One.

East and West India Docks and Birmingham June. Riway—offices, Two.

Paiday.

Newry and Enniskillen Railway—Guildhall Coffee-house, at One.

Great Northern Railway—London Tavern, at Twelve.

Cornwall Railway—Town Hall, Truro, at Twelve.

Kilkenny and Great Southern and Western Railway—effices, at Twelve.

Eastern Union Railway—Radley's Hotel, Blackfriars, at Two.

SATURDAY.

Waterford, Wexford, Wicklow, and Dublin Railway—offices, at Twelve.

(The meetings of Maring Companies are beserfed aponts the Mining Indicence.

LONDON AND NORTH-WESTERN RAILWAY COMPANY.

The half-yearly meeting took place yesterday, when, from the statement of cocounts submitted, it appeared that the total share capital was 21,317,747t, f which there remained to be called up 5,124,397t. The total expenditure on rorks, land, stock, &c., was 25,077,942f., and balance remaining, 578,818t. In he revenue accounts for the half-year, the receipts amounted to 1,123,280L; steres on cash balances, 20,720.—1,154,019f.—Expenditure, 557,817t.: leaving a profit of 596,202f.; less renewal of rails, 10,250f.—855,925d., to which add alance of previous accounts, 44,368f.: leaves a disposable sum of 630,320f., out f which a dividend of 3½ per cent. was declared, which leaves a balance in and of 71,398f.

GREAT WESTERN BAILWAY COMPANY.

GREAT WESTERN KAILWAI CUMPANI.

The half-yearly meeting was held on Thursday, when, from the statement of accounts submitted, it appeared that the total receipts on capital account were 11,643,8571; and expenditure, 11,608,8152—leaving balance of 34,5421. On the revenue account for the half-year the receipts were 547,9171; and expenses, 215,0962—leaving balance of 332,821L, to which add from last account, 7821L: left a disposable amount of 223,988L. A dividend of 8 per cent. was declared payable on the lat March, which will amount to 217,7732—leaving balance to next account of 62151.

LONDON AND SOUTH-WESTERN RAILWAY.

LONDON AND SOUTH-WESTERN RAILWAY.

The half-yearly meeting was held on Thursday, when, from the statement of accounts submitted, it appeared that the total receipts on share capital, to 31st December 1sst, were 7,769,8281; and expenditure, 7,490,6881—leaving a balance of 279,1892. In the revenue account for the half year, the total traffic receipts were 274,2894; and expences, 187,3431.—leaving a profit on the half year of 136,9442. Out of this sum is deducted 41,2432. for preferential charges and interest, including 23,3022. for debenture interest, 24004. for steam-boots, and 14,6732. for twelve menths interest on 7 per cent. preferential shares—leaving 95,7011.; to which add balance last account, 12351, leaves a disposable balance of 96,8352. A dividend of 5 per cent. was declared, amounting to 92,9831. 7s. 6d.—leaving a balance to carry to next account of 42521. 8s. 8d.

MIDLAND RAILWAY COMPANY.

MIDLAND RAILWAY COMPANY.

The ball-yearly meeting was held on Thursday, when, from the statement of account a submitted, it appeared that the total receipts on capital account were, 18,560,9361; expenditure 14,042,3040, leaving a balance against the company of 461,4041. On the revenue account for the half-year, the receipts had been, inclusive of 15811. balance from last account, 628,4601, and total expenses and charges on revenue 416,1104, leaving a balance of 212,3504, from which is to be deducted 10,0001, as a fund for renewal of permanent way, leaving a disposable balance of 202,5601. There has been an increase during the half-year, as compared with the previous one, of 68901 in the disposable balance, and 634,1781 in the capital account. Dividends were declared of 21.10s. upon each 1000. of Midland consolidated stock; 31 upon each 1001 consolidated preference stock; after the rate of 61 per cent. per annum upon the Erewash Valley shares; and of 11.16s. 3d. upon each 1001. of the consolidated Birmingham and Derby stock, leaving a balance for the ensuing half-year of 16,0001.

WEST CORNWALL RAILWAY COMPANY.

WEST CORNWALL RAILWAY COMPANY.

At the half-yearly meeting held on Thursday, the directors, in their report, and there being any truth in the rumour of the intention to break up the mpany; they repeated their conviction, that the sources of traffic on the line myean Truco and Penzance alone was sufficient to return a satisfactory division on the estimated expenditure; and such traffic would be materially inseed by the construction of any railway through the eastern districts. The return of the half-year was 67381.178.5d.: balance last account, 13461.10d. 80801.7s.5d.—Expenditure, 60861.16s.5d.: leaving balance, 19931.11s.

GREAT WESTERN DOCKS (PLYMOUTH) COMPANY.

GREAT WESTERN DOCKS (PLYMOUTH) COMPANY.

The fifth half-yearly meeting of shareholders was held at Stonehouse, on Monday, the 12th inst., when the SEGRETARY read the director's report, which stated, that the company, having been put in possession of the Milbay Pier at Michaelmas last, they had engaged permanent officials and appointed a secretary; they hoped that, by fixing a moderate and judicious scale of dues, and extending the accommodation which the pier afforded, a very considerable addition would be made to the existing trade.—In the engineer's report, Mr. Brunsa remarked that, daring the last six months, the progress of the works had been satisfactory, and as rapid as the season of the year, the weather, and the nature of the works would permit. From the balance-sheet, it appeared that the receipts on calls amounted to 37,222, 2a-1d.; expenses in obtaining Act, 4091.; since which (Parliamentary), 5501.; law, 7462.; land and compensation, 18,4111.; engineering, 15901.; works, 16,3141.; mirest, 4781.; leaving a balance at the bankers of 2401.—The report and accounts were adopted, and ordered to be printed; the four retiring directors and one auditor were re-elected; and, a vote of thanks having being passed to the chairman, the meeting separated.—[We are sorry to learn that, in consequence of some dispute between the company's engineer and the contractor, the works have been standing still during the last three weeks; but we have been informed, that it is not for want of fends on the part of the company as stated in several papers. The contractor, it is stated, has been paid 6000. In advance on account of his plant. Mr. Brunel slightly alluded to this circumstance in his report, stating it to be impossible then to enter into the consideration of the reasons which induced the contractor to suspend his work; but he trusted it would shortly be resunted—the delay not having been great, and no other neonvenience being the result.]

have already, and will continue to have, their careful and constant attention.

MATERIALITY OF ELECTRICITY.—Mr. Lake has lately communicated another experiment to the Lancet, showing the materiality of electricity, by the fact that a small piece of glass, paper, or other similar substance, made be made to cling to another larger piece by the interposition of the fluid. Taking the case of glass: the pieces are to be well cleaned, and the larger one charged with the electric fluid; when this is done the smaller piece is laid upon it, and held by the finger until both are inverted, so as to bring the smaller piece underseath. On removing the finger, they will be found to adhere slightly together. If, before the finger be removed, the smaller piece of glass be moved gantly by it over the surface of the larger, the adhesive power will be found to have increased to an extraordinary extent. "This second method," Mr. Lake observes, "whilst it shows more clearly the existence of matter, is not open to the objection that might be urged against the first—namely; that the attraction only continues until flie larger piece had communicated to the smaller one its quots of pyrogen; for the passing of one piece along the surface of the other should, if this were the case, tend most materially to expedite the result, and destroy the adhesive force; whereas, instead of doing so, it produces more powerful attraction." Mr. Lake not only mifers the existence of matter from this experiment, but considers that it affords a clear to its density "for by it we may see that it is less dense than water, since it keeps the above-montioned substance less firmly tagether; but it is more so than air, because dir is the occasion of no perceptible adhesion."

EXPORTATION OF THE PRECIOUS METALS.—The following are the official returns of the experts of gold and allver from the pert of London for the last week:—Sliver cosh to Belgium, 54,000 cances; ditto to Hamburgh, 5284; ditto to Rotterdam, 5000; ditto to Colais, 266,000—Sliver bars to Calais, 34,000; ditto to Rotterdam, 120,000 ditto to Belgium, 90,000—Gold coin to Belgium, 720; ditto to Hamburgh, 175; ditto to

LITERARY NOTICES.

A Treatise on Landed Property, in its Geological, Agricultural, Chemical, Mechanical, and Political Relations. By James Boydelle, Land, Mine, and Machinery Valuer and Agent, 54, Threadneedle-street, London.

Among the whole range of the physical sciences there is none of such vast importance to the whole human family as the successful cultivation of the soil, and the obtainment by scientific means, of the greatest return, and most valuable as to quality, of those fruits the seeds of which have been committed to its bosom. Within a comparatively sew years, Liebig, and other embent chemists, have turned their sitention more particularly to the

Among the whole ramps of the physical sciences there is must of each was important
to the whole human family as the successful cultivation of the so, such the obtainment
by scientific means, of the greatest return, and more. Within a comparatively for years,
Libbig, and other some, as applied to agriculture, and always have many of the mois
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as a property of the comparative of the property of the comparative of the property of the comparative of the comparative

The Year Book of Facts in Science and Art, exhibiting the most Important Discoveries and Improvements of the Post Year. By John Times. Loudon: David Bogue, Floet-street, 1849.

David Bogue, Elect-street, 1849.

The eventful year, 1848, has been as profife in its results in the advance of scientific truths, as it has been extraordinary in the manerous political changes which it has brought about. While throses have tottered to their fall, and the several populations of continental Europe have been harrassed by intestine war, the march of science has been unimpeded, and many of the most useful discoveries in the arts have followed in her train. Hence this Yzaz Book of Facras is equally, if not more than usually, interesting and the details of inprovements and invantions in the mechanical and useful arts, and new discoveries in natural philosophy, electricity, chemistry, geology, botany, geology, and geography, meteorology and astronomy, constitute a volume of information at once replete with amusement and edification. The frontspiece is a well-executed likaness of Sir David Brewster, and a sketch of his life commences the volume. A vignette of the Britannia tubular bridge, over the Menal Straits, decorates the title page; and the work is got up, as to type, paper, and binding, in the usual neat manner.

Notes on the Irish Difficulty, with Remedial Suggestions. By R. M. MUGGERIDGE, F.S.S. Dublin: J. M. Glashion, D'Olier-street, 1849.

This is a pamplike of userly 100 pages, in which the present difficult position of Ireland is considered in its everal bearings. The author-cumsences with the rural history of the country from a century past, and shows the causes which have been continually in action to prevent that disclopment of prosperity and wealth which her natural resources, under better regulations, would have certainly secured. He proceeds to show that, by inducing the influx of English capital, and encouraging her agriculture, the working her minerals, her manufactures, and her fisheries, Ireland might yet be roused from her torpid and degraded state, and take that position among nations to which she might appire, as a twinsister of Britain.

ELECTRIC TELEGRAPH—IMPROVED INSULATION FOR SUBMARINE PURPOSES—We have inspected at the General Telegraph Company's Office, John-street, Adalphi, a new method of arranging any number of telegraphic wires for crossing rivers, channels, or arms of the sea, by which they are rendered immeasurably more compact, and less liable to accident than by being laid singly, however well protected. The plan has been introduced by Mr. Francis Whishaw, whosa patents, connected with various kinds of telegraphs, we have noticed on former occasions. It consists in forming any number (say six) of single fine copper wires already coated with guita perchs, to a diameter of rather better than one-eighth of an inch, into a twisted rope, to be effected by machinery, which will thus become greatly increased in strength, and each individual wire, while its insulation is perfect, will thus be protected to the extent of the combined powers of the six. It is proposed, we believe, by Mr. Whishaw, merely to give this rope a costing of some indestructible and nenconducting paint; but we have before observed, and still think it probable, that on carrying out the principle of the submarise telegraph, it will be found necessary to ever all mulated wires with strong envelopments of fibrous material, and them again protected by bituminous matter. We think it would be highly interesting to the public at large, if the company were to give a thorough test of this mode of insulation, by laying down about two miles of the combined wire in the bed of the Thames, and carry on a communication from some establishment on the Surrey side with the company's offices in the Adelphi. Numerous short, sentences might be printed by the printing telegraph and circulated gratuitonally; a game at cheas might now and then be played, one player being placed at each extremity of the communication, and many other pleasing arrangements entered into by which the public would become much interested in the final success of the undertaking.

The Compendium of British Mining.

OBIGINALLY COMPELED AND PURLISHED IN 1843. REVISED, CORRECTED, AND ENLARGED FOR THE "MINING JOURNAL," BY J. T. WATSON, ESQ., F.G.S.

EASTERN DISTRICT.

Garat Rough Ton Consons, in the parishes of St. Cleather, Davidstow, and Altarnum, in the County of Cornwall, about five miles from Camelford. Divided into 512 shares; 22l. 10s. per share paid up. Conducted on the Cost-book system. The shares are firmly held, more than two-thirds of them being owned by Messrs. J. and William A. Thomas, the Devon Great Consols (Maria), the latter gentleman undertaking the office of purser. Mr. J. H. Hitchina, of Tavistock, consulting surveyor; Capt Joel Hitchina, agent. This concern is comprised under two leases, and extending over a surface of 900 acres, and being about 1000 fathoms on the course of the lodes. No. 1, Old Park, is held from Richard Spry, Esq., for 21 years from the 8th of May, 1846, at 1-15th dues. No. 2, Lamlary Moor, and other parts of the manors of Peupont and Treglasta, from the Right Hon. E. Granville, Earl of St. Germains, Miss Margaret Hocken, Augustus Coryton, and George Haye, Esqrs, for 21 years, from 29th September, 1846, at 1-15th dues. This district is comparatively unexplored, only two imperfect attempts having been made on Bray Down to the eastward, and now abandoned. The setts under consideration are immediately at the junction of the granite and killas. The principal lode has been costeaned upon for nearly 700 fathoms, and presents the most flattering appearances, being 18 feet wide, composed of the finest gossan, and the capely part of it having spots of copper and mundic throughout. A 40 inch steam-engine has been erected, and two perpendicular shafts, about 210 fathoms apart, are sinking, and are calculated to cut the lode at 60 fms. deep. The eastern shaft is now down about 39 fms. from the surface, and a cross-cut is driving to intersect the lode, which it is expected will be accomplished in less than a month. The sinking of this shaft is suspended for the present, on account of the quickness of water, but will be resumed as soon as the weather permits. The western shaft is down about 53 fms. from surface, and is to be continued until the lode is met with in the shaft. A cross-cut was driven at 39 fms. from surface, to intersect the lode, which has been cut through, and found to be 4f fms. wide in all, composed principally of exceedingly strong capel, with a hulk or leader, from two to 3 ft. wide, for the most part carrying spar, with the black oxides of copper and irou, t of the Devon Great Consols (Maria), the latter gentleman undertaking the office of purser. Mr. J. H. Hitchins, of Tavistock, consulting surveyor;

Mining Correspondence.

ENGLISH MINES.

ASHBURTON UNITED.—Capt. J. Kernick (Feb. 12) reports—We been much delayed on account of the profligacy of some of our trikulers.—when we get rid of; so that the quantity of the seedy to sent off this time is about 4 tons, will be on beard at Plynomath on Thursday. I hope to have our new stamps work the next week; they would have been ready sooner, only I was obliged to condem the ready of the

stamps. Our pitches have not altered since Mr. Murray was here.

BARRISTOWN.—Capt. T. Angove (Feb. 9) raports—We have not yet cut the lode in the still level—we are still driving south to do so. The lode in the 16 fathom level end cast to large, with good stones of lead mixed through it; the stores in the batk of this level are producing 6 cwts. of lead per fin.; the pitches in the stores in the back of this level are look manual. We are not alies to work the most productive part of carron ground east, in the bottom of the sail: tevel, on account of the water; we latend making some traits about Barristown House, to find the back of the lode.

BEDFORD UNITED.—Capt. James Phillips (Feb. 14) reports—At Wheal Marquals, the ground in the 105 fm. level cast the capols appear to be worn out, and we hope to be able to report the size and value of the lode in my next; the south wall of the lode is producing good stones of ore. We have put the men to drive north through the lode in the 80 fm. level cast to without alternation. Our new seam-whim was it motion on Thursday last, and continues to overk well.

70 fm. level east is without alteration. Our new steam-whim was its motion on a fun saxy last, and continues to work well.

CALLINGTON.—Capt. J. T. Phillips (Feb. 12) reports—In the north engine-shaft we have rather hard kills ground to sink through, and are now about 2 fms. below the 112 fm. level; in the scass-cut, towards the lode, the ground is not so hard as at least to the lode in the lode in the lot of the lode is small and noor. In the 90 fm. level south the lode has not in the south and the lode is small and noor. In the 90 fm. level south the lode has not lot the lode in the lo

day we finished cutting down our engine-shaft to the 3S, and had also to epen wider to put in the penthouse. We have also divided the shaft and planked, it we have commenced to sink. I have set 2 fms. at 14t, per fm., by nine mess. ting down the shaft proved to be more expensive than we expected, in consequen ground laying so heavy on the timber; and it was with much difficulty we accord that work. I believe we have done a pretty strong job, and, from appearance likely to have no more runs; we could never have cut it down without driving it; this has broken the force of water that was overhead. Our men have been exceedingly hard—eight, hours each pare, and relieve in place, and also Saturda until 10 o'clock, and coming on Sunday nights at half-past 12 o'clock; and we shall get down with moderate speed.

and il 0 c'clock, and coming on Sunday nights at half-past 12 o'clock; and we trust we shall get down with moderate speed.

CARTHEW CONSOLS.—Capt. W. H. F. Stephens (February 10) reports —At the upper mine, the summen are basily engaged in cutting ground in the 18 fm. level for fixing a primager lift at this place, which will shortly be accomplished. We have commenced operations in the north end, in this level, to intersect the lode north of the slide, to do which we expect we have about 10 fms. to drive—the ground in very favourable at present. Our tradesmen are in acting operations in getting on with the stamps and whosel.—At the lower mine, the lock in the atlit level south is without alteration.

DEAN PRIOR AND BUCKFASTLEIGH.—Capt. H. Choake (Feb. 44) reports—A decided improvement has taken place in the 45, or bottom level, both cast and wast of the erose-cut, and particularly so in the eastern end; we have been driving, as I stated recently, in the killas by the side of the lode, only blasting a few holes oceanionally, to prove the lode to a certain extent. In driving cast, the lode is chiefly composed of a very hard capel; but, in taken down the south part, we have the morning of the lower of the lower

he prospects are very encouraging.

DEVON AND COURTENAY CONSOLS.—Cupt. N. Sedeombe. (Feb. 13)

reports—In the end driving west, in the 40 m. leves, and as given of ora. In the in my december of sper, peach, and mundle, and occasional stories of ora. In the end driving east, in the 50 fat, level, the lode is 2 ft, wide, composed of expels, mixed with mundle and spote of ore.

EAST CROWNDALE.—Capt. S. Pauli (Feb. 10) reports—Thomas's lode, in Diamond's engine-shaft, is of a most kindly description; it is from to 6 feet vides composed of peach, prian, spar, mundle, and spot of tin; the ground is good, and favourable for sinking. Thomas's lode, in the addit level west, is looking very well indeed, we are carrying in the end about 4 ft. 5 m. of its width, which is worth upwards of 40, per fm., and is composed of poseh, prian, spar, and tin, with every favourable indication that it will be continuous; the stopes in the task of this level centime least so usual; the lode is 10 ft. wide, composed of peach, prian, spar, mundle, killas, and tin, worth about 25 f. per fm. All our operations, both at surface and underground, see going on very satisfactorily.

about 251, per fin. All our operations, both at surface and underground, see going on very satisfactorily.

GROWA SLATE QUARRY.—Mr. Pater Jeffery (February 15) reports—Complying with your desire that I would visit the parish of Trevalga, Cornwall, and inspect the Grown Slate Quarries, and report thereon to you my opinion as to the quality of the slate, and the facilities that offer for the shipment of the same, I beg to slate that, on my arrival at the quarries, I received rauch information from Mr. George Sampson, the captain, who has been employed 13 years. He pointed out to me the different strains of slate and stone in the cliff where the quarries are situated. The base of the cliff washed by the sea; the slate slate she had been a bodd, and the facility with which slate can be aligned in great. Machinery is fixed on the cliff for the conveyance of the slate on beard the state conveyed from the quarry to the deck of the vessel in small waggons, containing about 16 owns, at a time; and the ampty waggon is brought bank to the cliff by reversing the action of the whith, or dram, around which the cable is wound. This operation is very simple and effective, and the appense of shipment very trivial—tim work ling of a single horse being sufficient for the purpose. This gives a most decisive at must be added; and; as the slate in the Grows Quarries to \$4\$ a superior character to the must be added; and; as the slate in the Grows Quarries to \$4\$ a superior character to the

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as from Conre than rtaking veyor;

of most of the quarries in Cornwall, and interior to none, any fear of rivalry, or competition, on account of price, need not less cautoriaised. The slate is sound, good, and strong, splits even, and can be made of large size. I was informed by Capt. Sumpson, that slabe could be made 10 ft. aquarry, which is exceedingly large. Many tanks, holding 750 gallons and upwards, were to be seen at the quarry; and no doubt can be enter tained, that tanks made from these quarries will reality into a market. It can be enter tained, that tanks made from these quarries will reality into a market. It can be enter tained, that tanks made from these quarries will reality into a market. It can be enter tained, that tanks made from the cliff, the depth of the water (low water spring tides) is 96 ft., and the rise of tide 20 ft.—so that, at all times of tide, the ahipment of slate can be continuous, weather and daylight permitting.

HOLMBUSH.—Capt. W. Learn (Feb. 13) reports—The ground, in cutting through the great cross-course, in the 123 fm. level west, is still very hard, and at present we are making but allow progress towards intersecting the caunter part of the lode. The ground in the 120 fm. level orges cut south, and east of Hitchine's shaft, is favourable and agreesable to the dialling, provided the underlay of the south part continues as seen in the 110; we shall intersect the within 5 fms. The lode in the 120 fm. level south is 4 ft. wide, composed of quarte, prian, and stones of lead—saving works. The fide, in the 100 fm. level south is 4 ft. wide, composed of quarte, prian, and stones of lead—saving work. The fide, in the 100 fm. level south is 4 ft. wide, composed of quarte, prian, and stones of lead—saving work. The fide, in the 100 fm. level south is 4 ft. wide, composed of quarte, prian, and stones of lead—saving work. The fide, in the 100 fm. level south is 4 ft. wide, composed of quarte, prian, and stones of lead—saving work. The fide, in the 100 fm. level south is 4 ft. wide, composed of mandic, belastic, the m

o continue, the men will drive 6 fms. this month.

EIRKCUDBRIGHTSHIRE.—The agont (Feb. 10) reports—The lods in
the 50 end, east of Stewart's, is 2 ft. wide, with a small leader of lead in the middle, about
fin. wide, and a kindly spar with it. The lode in the 40, west of Keith's, is 2 ft. wide,
tilt good stones of ore, and worth about 5 cuts, of lead to the fin. The winze under the
9 is suspended until the 50 end gets nearer to it; we have put the men of the 30, east of
fixmart's, to cross-cut north, to see if we can find another part of fie lode in that direction. The lode in the 20 end east is about 1 ft. wide, and still unproductive.

Stawart's, to cross-cut north, to see if we can find another part of the lode in that direction. The lode in the 20 end east is about 1 ft. wile, and still unproductive.

LAMHEROOE WHEAL MARIA.—Capt. Jehn Tabb (Feb. 18) reports.—At the engine-shaft we have completed the pint in the 20 fm. level, put in pertihouse and feetway, and we are now in the course of sinking. At Davey's shaft we have out bearer beles for cistern for standing lift, and sunk? feet of ground. The works in both shafts are progressing favourably, and the men are to have a promium of 65, for each shaft, should the sinking be completed the first week in Jane—that is, the engine-shaft to reach safe, as deep as the 60, and Davey's shaft as deep as the 50 fm. level.

LLWYN MALEES.—Captain H. Francis (February 8) reports.—We have recommenced dressing ore, and John Hughes, to whom it has been set, is making considerable progress; and, if the continues to go on in the same way, we shall have a good eargo for sail ere the end of this month. The London shaft is down 20 ft. under the 14 fm. level, and we are now getting in the requisite timber, and making preparations for putting in the pumps I ordered at Abarystwith, which are to be ready for us in another fortnight. I have no doubt we can sink 12 ft. per month in this shaft when our pumps are put to work. Oliver's winze is down 28 ft. under the 14 fm. level, and the looks much better some days than on others; this level is now nearly 5 fms. west of the London shaft.

London shaft.

MENDIP HILLS.—Captain C. Harpur (Feb. 12) reports—I have, for the present, suspended operations in the winzs below the 20-4m. level, and removed the men to rise above the same level, on a branch about 3 ft. wide, composed of flookan and spar, and intermixed with a few sprigs of lead. In the sing department, the appearance of the beds of sing striff continues without alteration, being about 15 ft. thick, producing some tolerable good slags. We have a very good pile prepared for the furnaces; speaking from its appearance. I hope to report, a better produce of lead from our next 24 hours' smelting than any we have hitherto had.

SOUTH WHEAL TRELAWNY.—Captain W. Jonkin (Feb. 12) reports—We have hitherto had.

SOUTH WHEAL TRELAWNY.—Captain W. Jonkin (Feb. 12) reports—We have driven a cross-cut west from the engine-shaft in the 30 fm. level, with aix men; we have not intersected any more lode yet; we are also driving north on the course of the lode, with two men; in the same level the lode is from 3 to 4 feet wide, with two good walls, east and west, with a moderate underlay cast, composed of killas, prian, and caple, with spots of lead—ground more favourable.

TAMAR SILVER-LEAD.—Captain J. Sprague (Feb. 12) reports—In the 190 end, south of the shaft, the lode is 18 in. wide, composed of four-spar and ore. In the 175 end the lode is small and nor. In the 160 end no lode has been taken down since last reported. In the 145 end the lode is 2 ff. wide, composed of caple, with some ore, but not rich. In the 135 end the lode is 2 ff. wide, composed of caple, with some ore, but not rich. In the 135 end the lode is 2 ff. wide, composed of caple, with some level; the whole of them are carrying a small quantity of ore. In the 70 end the lode is 1 ft. wide, composed of capel, with some small strings of ore. In the 60 end the lode is 1 ft. wide, composed of capel, and mundle. We sampled on Saturday, the 3d inst., computed 86 tons of rich sliver-lead ores—samples of which have been sent to the different purchasers.

TINCROFT.—Captain P. Floyd (Feb. 12) reports—At Palmer's shaft on

I ft. wide, chiefly composed of capel, with some small strings of ore. In the 60 and the lode is 2 ft. wide, composed of can, capel, and mundic. We sampled on Saturday, the 3d inst., computed 86 tons of rich sliver-lead ores—samples of which have been sent to the different purchasers.

TINCROFT.—Captain P. Floyd (Feb. 12) reports—At Palmer's shaft, on East Pool lode, in the 90 fm. level west, the lode is 1 ft. wide, with stones of copper ore. In the 80 fm. level west the lode is worth 7t, per fm. for copper. In the 70 fm. level west the lode is at present pour. At North Tincroft, the lode in the 100 fm. level east is worth 6t, per fm. for copper; the ton fm. level, west is worth 7t, per fm. for copper. In the 95 fm. level east is worth 7t, per fm. for copper. In the 95 fm. level east is worth 2t, per fm. for copper; in the 80 fm. level, east of Willoughby's shaft, the lode is worth 3t, per fm. for copper; in the wince sinking below this level, the lode is worth 3t, per fm. for the and copper; in the wince sinking below fmis level, west of angine-shaft, the lode is worth 10t, per fm. for copper. On Highburrowi lode, in the 152 fm. level, east of angine-shaft, the lode is worth 10t, per fm. for copper. On Highburrowi lode, in the back of this level, east of suprine-shaft, the lode is worth 10t, per fm. for it in the stopes in the back of this level, east of fm shaft, are worth 2t, per fm. for it in the stopes with 10th the stopes went to the stopes of the stopes went to the stope of the sto

when rares, the lotte is 14 in. white, comming one, initiate, and spar. If the swins below the adit, the lode is 14 in. white, with occasional stones of ore.

WHEAL TRELAWNY.—Capts. H. Vivina and J. Kemp (Feb. 12) report—We have great pleasure in informing you, that the mine was drained, and all the labourers set to work, last friday morning. At Phillips's abaft, the men have put in the nenthouse, and are now preparing to sink this shaft under the 72 m. level. The lode in the 72 m. level, north of this shaft, is 3ft, wide, and worth 72 m. level. The lode in the 72 m. level, north of this shaft, is 3ft, wide, and worth 72 m. level. The lode in the season that the shake of this level and in Trelaway's shaft, it has been sunk but little since the last report. The consequence of our breaking the main rod in Trelaway's shaft, it has been sunk but little since the last report; however, we have again resumed it. The lode in the 52, north of this shaft, is 24 ft. wide, and worth 84, per fm.; the character of the ground is also improved. The stopes in the back and bottom of the 42 fm. level are judicing a fair quantity of ore. At the acrith mine, we have been shaking Smith's finaft; but it is now suspended, on account of an increase of water—however, we hope to resume it shortly. The lode in the 36 fm. level, near of water—however, we hope to resume it shortly. The lode in the 36 fm. level, near of water—however, we hope to resume it shortly. The lode in the 36 fm. level, near of water—however, we hope to resume it shortly. The lode in the 36 fm. level, near of water—however, we hope to resume it shortly. The lode in the 36 fm. level, near of water—however, we hope to resume it shortly. The lode in the 36 fm. level, near of water—however, we hope to resume it shortly. The lode in the 36 fm. level, near of water—however, we hope to resume it shortly. The lode in the 36 fm. level, near of water however, we have not cut the lode water of the lode is looking more promising, for ore than when last taken down. In the 57 fm. l

WHEAL PENHALE.—Capt. W. H. F. Stephene (February 10) reports—
In reporting of this mine to-day, I beg to say we are getting on very well in the 10 fm.
inven north, though the lode in this end is at present poor, yet we are making good progress towards getting under that large bunch of one which is gone down alread in the bottom
of the addix; in the south and, sume laval, the lode continues to low wall, though the
ground is not quite so favourable as last noticed. The sumpmen have not made great
progress in sinking the shaft this week, having been engaged in changing the pilwork.
The tributers' pitches look very well, and from, the one in the back of the addit beautiful
work in lead is belong got. Our mechanics are engaged in getting on the greater and whee l.

WHEAL SARAH—Captain John Sarson (Ech. 15.5 expects—The wine-in

WHEAL SARAH.—Captain John Spargo (Feb. 15) reports—The mine is looking well. We have commonced dressing, and are bringing about a good parcel of lead for market. We are getting on as first as possible with the rods, to connect the south wheel to the old shaft.

wheel to the old shaft.

Wheel to the old shaft.

WHEAL TREMAYNE.—Capts. J. Phillip and W. Blewett (Feb. 7) reports

—We have commenced a cross-cut to drive south in the 70 fm. level, east of the old flatrod shaft, to inter-sec the south lock near Maddren's shaft; the ground is favourable for
driving—giving 28s, for driving; we lope to get at this point in about four months, if the
ground should continue, the same as at present, than we should eee the lode 24 fms.
desper than we are at present. In the 70 fm. level, east of Alexander's shaft, on Wallis's
lode, the lode is 15 in. wide, producing a little copper ore; we are just getting under the
ore ground we had in the 60 fm. level, we hope this lode will improve very shortly. In
the 50 fm. level, west of Maddren's shaft, on the south lode, the lode is 3.ft. wide, opening
moderate tribute ground; is the 50 fm. level, as of ditte, the lode is 4.ft. wide, producing a little im, opening tribute ground. In the 40 fm. level, west of Maddren's shaft
the lode is small and poor at present; in the 40, eact of ditto, the lode is 16 melons wide,
producing a little im, opening moderate tribute ground. In the 30 fm. level, west of
Wheal Margaret shaft, the lode is is in. wide, poor at present; we are larged down the
rods, and preparing to sink Wheal Margaret shaft under the 30 fm. level as fast as possible

wa hope the next level will be a very good one. In the 33 fm. lovel, west of the new shaft, the lode is 9 in. wide, producing good stones of the—this level is driven 8 fms. west of the said shaft, just getting into the run of the ground we had in the 40 fm. level. In the 45 fm. level, west of the said shaft, into tole is 1 ft. wide, worth 107, per fm. fm. All the other parts of the mine are much the same as har veperted.

WHEAL VINCENT:—Capt. John Spargo (Feb. 15) reports—The plan we have adopted in bringing up the lobby answers well, by which means we shall complete the same nuch aconer than anticipated: I think in three weeks it will be completed. Our other work is getting on satisfactorily. Our south sode is getting into a blue stone, like that in the old workings above us ; we expect a greater improvement soon.

WHIDDEN.—Captain J. Kernick (Feb. 12 reports—There is no alteration since Mr. Murray left, except that we are getting every week additional evidence of the existence of a large north inde, both from the shallow workings to the north and the cross-cut from the deeper levels.

MINING: IN WALES.

Bwtor Cossons—Captain M. Francis (Seb. 19) reports—We have discovered a good course of ore in the crass-cut driving south from the 16 fm. lored, 38 fms. cast of the ca

would say, that I consider there is no doubt of this mine paying good profits, provided there is a fair capital first subscribed to lay the mine open in good working order.

[From the Plymouth Journal.]

[Eastrock United Tim Mines.—Mearly 3 tons of tin were sent away from this mine last week; the lode is looking very well, and the tributers are working with good spirit. Where Calerock.—No material alteration has taken place here; in the western end, at the 50 fm. level, a large quantity of water is coming away from the lode—the lode has not lately been ent into; the pitch is looking very well. Having obtained possession of the adjoining sot of Kelly, a 50-dect diameter water-wheel has been purchased for pumping the water in the old shaft. The men are engaged clearing the level in the new sett.

Cardon Wheal Hoover.—An improvement has taken place in the winze sinking below the 50 fm. level, on the saw-pit lode; the branches of the lode are falling together below the 50 fm. level, on the saw-pit lode; the branches of the lode are falling together below the 50 fm. level, on the saw-pit lode; the branches of the lode are falling together below the 50 fm. level, on the saw-pit lode; the branches of the lode are falling together below the 50 fm. level, of the mines under the tronstone which had disordered the lode.

Cardon Coffer.—In diriving the level, they are breaking some rich stones of copper ore, Whall Ash.—There is a leader of spar, prian, and peach coming in on the south side of the mundic, which indicates a favourable change. The killas is also become much softer, and more congenial for ore.

WHAL ASH.—There is a leader of spar, prian, and peach coming in on the south side of the mundic, which indicates a favourable change. The killas is also become much softer, and more congenial for ore.

WHAL ASPERTON.—There is a slight improvement in the 62 fm. level. The end of the 47 fm. level is in a cross-course. The new stamps wheel is at work.

WHAL ASPERTON.—There is a slight improvement in the 62 fm. level.

Prin

Cost-Book System.—In the case of Gripe v. Wilcox, concerning St. Teath Consols Mine, the Vice-Warden of the Stannaries Court, took occasion to make some observations on the importance of keeping correct lists of adventurers in mines conducted on the Cost-book System, especially as, by the passing of a late statute, they were exempted from the operation of the Joint-Stock Companies Winding-Up Act.—It was considered that these mine accounts were kept in such a way, as to supersede the necessity of applying the prowere kept in such a way, as to supersede the necessity of applying the provisions of that Act to them—hence they were exempt; but, if they were not carefully kept in the proper manner, they might be considered joint-stock companies, and become involved in the provisions of the Winding-Up Act. The cost-book must be carefully kept, so as to show a correct list of share-holders—such a list as would be prima facie evidence against all the shareholders.

All cost-book must be carefully kept, so as to show a correct list of share-holders—such a list as would be prima fixes evidence against all the shareholders.

WHEAL CURETS MINING COMPANY.—In the Stannaries Court, on the 8th inst., Mr. Hoskins appeared before the Vice-Warden, m behalf of this company, to move for delay in the sale of the mining materials. He founded his motion on an affidavit of Mr. Bull, the solicitor of an adventurer named Thatcher, who had applied to the Lord Chancellor to wind up the affairs of the company, under the Joint-Stock Companies Winding. Up Act, the decree being that it should be so wound up, and an official manager was to have been appointed on Monday last. He only asked for a delay of three months, the corrections in fall, without selling the materials. Mr. Stokes and Mr. Roberts opposed the motion, as in the event of delay taking place, and the officer of the court being put in possession, as proposed, the official manager appointed by the Court of Chancery, might interfere with the possession by the inferior court, and sell the engine. The Vice-Warden thought there could be no objection to granting the rule, for, under any circumstances, asale was not hastily made. He, therefore, ordered that the decree be absolute for a sale, the register to exercise his widest discretion as to the time of sale. An officer to be put in possession, at the request of Mr. Hoskins, as well as by the usual exectice of the cent.

CARADON COPPER MINING COMPANY.

A general meeting of adventurers was held at the Fountain Inn, Liakeard on Tuesday, the 6th inst.—Capt. Perfec Clymo, jun., in the chair.—The accounts were examined and passed, showing a balance of 24th 17a, 10d. against the mine. The arrears of calls amount to 1904, which, deducted from the balance, will give a debit of 5th 17a, 10d.; still all the arrears are not expected to be received. It was resolved, that the sinking of the engine-shaft under the 30 fm. level be immediately resumed, and the next meeting should be held on Wednesday, the 4th of April next. A call of 11 per share was made.

HERODSFOOT MINING COMPANY.

A meeting of adventurers was held at the Red Lion Inn, Liskeard, on Thursday, the 9th inst., when the report of Capt. John Medlen was read, and a statement of accounts submitted, showing—Balance of last account, 5751. 18s. 2d.; October cost, 6561. 18s. 9d.; materials, 2241. 12s. 9d.; Nov. cost, 6671. 17s. 3d.; materials, 2377. 2s. 1d.; founder for steam-engine, 5641.—29277. 19s.—By calls received since last account, 4941. 0s. 2d.; October lead sale, 9231. 3s. 11d.; November, 9431. 2s. 3d.—showing balance in favour of mine. 5771. 12s. 8d.—The accounts were passed, and the purser directed to proceed against all share-holders in arrear for calls.

The first general meeting of shareholders was held at the Globe Hotel, Expert, on Monday, the 18th inst.

The proceeding the state of the transfer of the tran

The thanks of the meeting were passed to Capt. Fulford, for the meritorious nanner in which he had performed the duties of chairman.

[We congratulate the company on the prespects which this promising mine presents; the more so, because we learn that mining engagements generally are at present in a state of infancy among the enterprising and wealthy Exonians. This nucleus, formed in the centre of a great mineralised county, we trust will expand its influence, and bring into active operation many of the promising setts abounding in copper, lead, and tin, which are well known to exist in Devon, and only require a well-directed capital, and the spirit of custorpies, to develope more fully.]

SOUTH WHEAL TRELAWNY MINING COMPANY.

SOUTH WHEAL TRELAWNY MINING COMPANY.

A general meeting of shareholders was held at the offices, Birchin-lane, on Thursday, the 8th inst.—Girantus Chippindale. Esq., in the chair.—The statement of accounts was produced, showing—Balance in favour of mine, as per last report, 1144. 9s. 9d.; call of 59s, per share, 3844.—4982. 9s. 9d.—By Oct. cost, 684. 18s. 3d.; Nov., 344, 12s. 8d.; Dec., 827. 8s. 10d.—leaving balance in hande of purser, 2444. 10s.—Outstanding liabilities, January cost, 851, tamage to land, 1284.—2131—Reports from Capts. J. Bryant, R. Dunstan, and W. Lean, having been read, it was resolved, that it be left to Meerra. C. Chippindale, W. Mount, and T. Hackett, to decide, from time to time, until the next general meeting, what work shall be done in the mine.—Capt. W. Lean was re-appointed purser, at a salary of 24. 12s. 6d. per month.—It was agreed that the arrangement made by Meesrs. Chippindale and Mount, to pay Mr. G. Raby 1284. For damage to land, in lieu of 306. 8s. claimed, should be acceded to, and the amount paid.—The purser was directed, either by himself, or through the merchants to whom the mine is indebted, to take legal steps; in the

Vice-Warden's Court or elsewhere, against all shareholders who shall not within two weeks pay up the call made the 26th Ootober last.—A call of 10s, per share was made.

WHEAL SOPHIA MINING COMPANY.

WHEAL SOPHIA MINING COMPANY.

A meeting of adventurers was held at the counting-house, on Thursday, the 8th inst., Mr. John Bennett, in the chair.

The accounts were examined and approved, showing—Nov. 1, 1848: talance in purser's hands, 8t. 5s. 4d.; arrears due, 241f. 6s.; call of 5s per share, due Jan. 1, 123f. 10s.—373f. 1s. 4d.—Cost for Nov., 42f. 12s. 10d.; dhtto for Dec. (including merchants' bills), 72f. 17s. 6d.; arrears now due, 245f. 6s.; balance in purser's hands, 12f. 5s.—378f. 1s. 4d.—The amount of arrears appearing on the increase, the solicitor was requested to proceed against all parties in arrear. The thanks of the meeting were given to Captain Carpenter, for attending this meeting and examining its proceedings. A call of 5s. per share was made, payable on or before the 1st March. A vote of thanks being passed to the chairman, the meeting separated.

The following report, from Capt. J. Carpenter, was read to the meeting:—Feb. 8.—Nothing has occurred to alter my options as regards the prospects of the mine since my last inspection, in June, 1848. Taking into consideration the hard channel the shaft has been sunk in, and the limited number of hands employed both in drawing stuff and water, I think the progress has been very fair and proportionate. The shaft is now 19 fms. under the sdilt level, where I would recommend a cross-cut to be driven from, to cut the lode, as the ground in the north side appears to be very much changed in favour of the lode, being impregnated with copper or of an excellent quality, mixed in a white say, very congenial for copper. I think there is every probability of the hard ground being carried off south faster than the lodes underlay, as the fieads of ground, which are very smooth and sinteralized, appear to be completely mastering the strata; therefore, in such cases, we conclude the prospects are a sufficient warranty for further development in depth and extension on the lode.

WHEAL VINCENT MINING COMPANY.

WHEAL VINCENT MINING COMPANY.

WHEAL VINCENT MINING COMPANY.

The usual two-monthly meeting, for auditing the accounts of November and December, was held at the Bull Hotel, Leadenhall street, on Tuesday, the 13th inst.—John Parley, Esq., in the chair.—The accounts presented showed a balance of about 51th due to the pursur, to liquidate which, and for further operations, the sum of 2s. 6d. per share was deemed necessary, on or before the 1st March. A deputation, consisting of Messrs. Wiseman, of Kelvedon, Essex, and George Richardson, of Great St. Helen's, London, having been appointed at a previous meeting to visit the mine, presented a report replete with information, and more than usually abounding in useful observation, emanating from gentlemen only theoretically acquainted with mining operations, was read with evident satisfaction, and unanimously adopted.

The following report, from Capit. John Spargo, was read to the meeting:—

mation, and more than usually abounding in useful observation, emanating from gentlemen only theoretically acquainted with mining operations, was read with evident satisfaction, and unanimously adopted.

The following report, from Capt. John Spargo, was read to the meeting:—
Peb. 9.—We have cut the south lode, which is producing some excellent work for thi; there is no doubt, as we drive further to hill, but that it will much improve. We shall commence stamping immediately, and hope shortly to get some for the market. I am sorry we have taken such long time to cut this lode; but no one can tell whether the ground is hard or soft until wo get to it; and here we have met with some very hard bars of ground, which has been against us, but the ground on the course of the lode is favourable for driving. I hope in a week or two we shall get a good pile of the broken for the stamps. Our lobby is getting on at present very satisfactorily; but we have met with some very hard bars, and the shall satisfactorily; but we have met with some very hard bars between the shelf and overburdens, which has thrown us back considerably—this, connected with unfavourable weather, has caused such delay; however, we are now driving; in solid abdif, and, we hope, are past all the hard rocks. Our leats are completed within a few fathoms, and the smith is getting on well with the rods, &c. I hope the plan I have adopted, in bringing up the adit or lobby, will answer; if so, it will be completed long before expected. At the same time, the work about the wheelpit, &c., will be carrying on. I shall be able to say, by another weak, whether the plan adopted will answer. As regards the new lode, we have not seen it since a week on the health was down, it would pay well. This I knew before; still his opinion was good as a practical minimal producing the producing the same of out, it is not be of good quality. I can only state to you thi

CONDURROW is looking very well in the sump and bottom levels.

EXMOOR WHEAL ELIZA.—Capta W. H. Whitford and T. Dunn report—We discipated cutting the caunter lode in the engine-shaft on or about this time; but there e no symptoms of it as yet. Our sinking does not exceed 3 ft. per week; we hope to 12 a position to report more favourably shortly.

MINERAL DISTRICT OF EAST DARTMOOR.

MINERAL DISTRICT OF EAST DARTMOOR.

Siz.—Knowing that you are a friend to the mining community, I beg to hand you the following remarks on the mineral district in the eastern part of Dartmoor, which I have recently visited. I am a Cornish man, and have been a miner for nearly 40 years, 15 of which I have acted as an agent, and in all my experience I have not met with such favourable indications as the mines on Dartmoor present. I have never seen so much work done by the ancient miners in any of the mines in Cornwall, although we have good tin mines there, which have returned much profit to the shareholders. On my inspection of the eastern part of Dartmoor, I was much surprised to see the excavations that had been made by the ancient miners; they have opened on the backs of the lodes, from the Birch Tor or Vitifer mines, for upwards of three miles in length, and from 10 to 15 fms. in depth, and in some places from 80 to 30 ft. wide or more. I understand that this mine has been worked a great number of years, and has been very productive. Immediately adjoining this mine, on the east, is East Birch Tor, on the same lodes. The ancient miners have here opened on 10 distinct lodes, on the backs of some of them to a very great extent in length, from 60 to 70 ft. deep, and from 70 to 80 ft. wide; these mines are now working with spirit. Another mine to the east of East Birch Tor, has recently been taken by a Bristol company, and they are raising very good stones of tin on the backs of the lodes.

AN OLD MINER.

ACCIDENTS.

Explosion at Darley Main Colliery.—In last weeks Mining Journal, we gave the particulars of the inquest on the sufferers in this truly deplorable case. Mr. Tremenheere, the Government Commissioner, being the last witness examined (in addition to what we gave of his evidence last week), called the attention of the Jury to the several inquiries in Farlisment, and on particular inquests which had taken place, in all of which there was a leaning towards a system of compulsory powers, and which, probably, led the members of the Legislature to consider it a matter of too much difficulty to allow them to pass a measure of the kind; his opinion was formed after much inquiry and careful consideration, that a system not involving compulsory powers would be practicabe, and to a greater extent effectual. There should be power for the inspector to examine and report, and to place such report on record, with power to the manager of such mine to dissent from such report, and to call in some disinterested third party, whose report shall also be placed on record; he then alluded to the two general causes of explosions in pits—bad ventilation, and the carelessness of the men; and he belived that the inquiries and reports of the inspector, and the full discussion which the system of ventilation, in any particular mine where he saw defects, would be subject to, would lead to the necessary modification, and in a few years reduce the chances of explosions to those cases which could be traced to the carelessness of the men. The coroner then summed up the evidence, and declared his strong and full conviction of the soundness of the views of Measur. Tremenheers and Smyth, that all colleries be subjected to frequent inspection by sclentific and properly qualified persons, to be appointed by the Government, when any error in the system of ventilation would be at once discovered and pointed out, and consequently a great saving of human life ensule. The Government ought, therefore, promptly and percentrolity to interfere, or it was to be f on at Darley Main Colliery .- In last weeks Mining Journal, we gave the parti-

sist, and it appeared to afford entire satisfaction to the numerous individuals present.

Kingsesiaford.—As E. Cramp was removing some sperms, which supported the mine, in a pli at Mr. Chawasse's coillery, between 3 and 4 tons of clod enddenly fell and killed him.

Rosely Regis—Prightful Death.—Josiah Green met with a horrible death, by, it is rumoured, accidently failing down the shaft of a pit, 240 yards deep, at Old Hill, . this in an intoxicated state. At the inquest, held on the body, it was stated that the deceased had been fighting during the evening on the pit hank with Joseph Lewis; and another numeur was, that the deceased was knocked down the pit, round the mouth of which, psice constable Rogers stated, there were marks, as though the deceased had endeavoured to save himself from failing down the shaft.—Welershampton Chronicis.

Abergron.—M. Davies was killed in one of the east pits at Cwmavon; his arm was mused by a fall of coal, when mortification ensued, which ended in death.

Stroy Park.—John Whearne was instantaneously killed by the sudden explosion of a last in this mine.

The PRACTICAL COURSE of INSTRUCTION in this institution is under the disc of Dr. A. W. HOFMANN and assistants.

The NEXT SESSION will commence on WEDNESDAY, the 7th MARCH, and on TUESDAY, the 31st JULY next. se on WEDNESDAY, the 7th MARCH, and end

ROYAL COLLEGE OF CHEMISTRY,

ion to the secretary.
WILLIAM JOHNSON, Secretary.

COPIAPO MINING COMPANY, 22, Austinfriars, Feb. 16
1849.—Notice is hereby given, that the HALF-YEARLY MEETING of shareholders in this company will be HELD at the company's office, No, 23, Austinfriars, on
Wednesday, the 28th inst., at One o'clock precisely.

By order of the directors,

FRED. GRELLET, Secretary.

LUROPEAN GAS COMPANY, 39, Finsbury-circus, London, Feb. 15, 1849.—Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of the shareholders will be HELD at the house of the company, 39, Finsbury-circus, London, on Wednesday, the 7th day of March next, at Two o'clock in the afternoon precisely, for the purpose of confirming the resolutions unanimously adopted at an Extraordinary General Meeting of proprietors, held this day.

By order of the board,

J. B. GREAVES, Sentetary.

VATIONAL GAS BURNER.—After 18 months' trial, accompanied, in many instances, by severe tests, the result of which has discom-

panied, in many instances, by severe tests, the result of which has elicited unqualified approbation, the NATIONAL ECONOMIC GAS BURNER stands pre-minent. Testimonial from Samuel Cleyg, Eq., Consulting Gas Engineer.

I hereby certify, that I have examined the National Economic Gas Burners of Messrs. Paul and Co., London, and Sad the consumption per hour of cubic feet of gas, at a pressure of 5-10th of an inch to be respectively—No. 0, 4 feet; No. 1, 6 feet; and No. 2, 10 ft.; at the same time the illuminating power is very great, the light remarkably steady, with freedom from smoke or smell of gas, with great purity of light; and, in my opinion, they are decidedly the best patent gas burners in use.

London, Nov. 9, 1848.

May be seen burning, and can be tested by an experiment.

London, Nov. 9, 1849.

May be seen burning, and can be tested by an experimental meter, at the office of PAUL & CO., Gas Engineers and General Gas Fitters, No. 43, Skinner-street, Snow-hill, London.—A detailed Description and Diagram, with estimonials at length, forwarded, post-free, on application.

A curious and melancholy fact connected with the electric light has been just communicated to us. A gentleman near Waltham Abbey, experimenting with the electric light a few days ago, having an incised wound on his left hand, touched the conductor—a copper wire, and shortly afterwards experienced an irritation, which mimediately spread in inflammation to the arm. The arm became immensely swollen, and large tumours appeared all over the body and limbs. Eminent surgeons from London have been in attendance; some of the tumours were opened, and every means resorted to for the purpose of checking the poison, but without avail. We learn that the unfortunate patient lies without the least hope of recovery.

GOLD IN BENGAL.—In remarking on the mineral riches which it would be found were indigenous to the soil of our possessions in the East Indies, if properly sought after, a correspondent of a morning paper states, that the extensive and varied field of Hindoostan has been, up to the present hour, but very superficially and insufficiently explored in all that relates to geological researches—that, in addition to diamonds, topazes, garnets, and other precious stones, which are found numerous in the rivers and mountain streams, gold is to be met with without a doubt. Being one day on the margin of a river, he aw the sands glitter in the sunbeams, and, taking home a handful, he careful washed it, and found it to contain a portion of gold, and he believes if it was properly worked would yield a high profit. The writer desires no profit from having discovered gold in the rivers of Bengal; he declares the fact stubbornly and steadily, that gold is to met with, in no mean quantity, in that presidency, and could describe the spot, so that it could easily be found.

The Briton Ferry Collegenes—and of the first the british and started the sumbning and scompleted on Friday, the 9th inst. and started been erceted at this winning.

presidency, and could describe the spot, so that it could easily be found.

THE BESTON FERRY COLLERIES.—A powerful pumping engine, which has been erected at this winning, was completed on Friday, the 9th inst., and started very satisfactorily. Exertions are now being made to commence immediate mining operations on a large scale, by which employment will be given to numerous men now out of work. The coal is bituminous, and has been proved to be of excellent quality, producing an unusual proportion of large coal, being a description in which the supply at this port has been very limited, and is therefore much in request. These collieries belong to the Neath Abbey Company, who contemplate a considerable extension of the works at no distant period Cwm Avon Copper Works.—The Governor and Company of the Bank of England are reducing the number of men employed in this concern; many off the colliers were discharged on Saturday last, and still further reductions, we are told, are in contemplation.

The Red Jacket Copper Company, Near Neath.—This new copper company is said to be principally composed of members of the Society of Friends, resident in London.

Darley Main Colliery.—The subscription for the widows and orphans of

DARLEY MAIN COLLIERY.—The subscription for the widows and orphans of the persons who lost their lives in the the Darley Main pit, now reaches, we re informed, near 130 01.

THE NEW MILL.—We are glad to hear that the starting of this splendid and stupendous mass of machinery, the largest of its kind in the kingdom, recently erected by the proprietors of the Tredgar Iron-Works, will shortly take place, and be celebrated by a public demonstration.—Monmouthshire Merlin.

California.—The packet-ship, Sheridan, arrived at Liverpool last night, bringing advices from America four days later than received by last steamer. The California gold mania continued to absorb as much attention as ever. The quantity obtained was fully as great as formerly reported, and the quality is said to be very fine.—The iron-ship Antelope sailed from the Mersey this morning for San Francisco, with a cargo valued at between 40,000% and 50,000%, and a large number of passengers. The Antelope has also taken out the framings and plates for an iron warehouse, to be erected by mechanics who have taken passage in her.

Accounts from Bordeaux speak of an increased business during the level.

Accounts from Bordeaux speak of an increased business during the last month, promoted by a revival of confidence, and also from the excitement occasioned by the gold discoveries in California. Letters from Valparaiso particularly mentioned the high prices obtained for recent shipments of French wines, and hence the markets were altogether better.

A deputation from the Irish Waste Land Improvement Society, had an interview, yesterday, with Sir George Grey, at the Home Office. The deputation consisted of Sir T. Burke, Mr. Ormsby Gore, Mr. St. George, Mr. O'Flagherty, Mr. Heathcote, Col. Robinson, and Mr. Staples.

The gold bullion held by the Irish banks for the last month, has been increased by 49,000l.—Limerick Chronicle.

GUTTA PERCHA.—The vessel Belhaven, arrived from Singapore, has brought the large quantity of 10,792 blocks and 39 packages of this peculiar article of merchandise, which is now made seggicable for so many purposes, in addition to those to which it was at first considered capable of being appropriated, including picture-frames, and an immense variety of articles for domestic and ornamental use.

OTHER STEAMSHIP COMPANY.—A meeting of the shareholders of the above company was held at their offices, on the 13th inst. It appeared that, at the establishment of the company, they incurred a debt for new vessels of 80,000. Since then they subscribed 96,0001, paid off the 80,0001, had property to the amount of 170,0001, had a fund to meet the deterioration of vessels of 24,0001; to meet casualties, 30,0001; besides a sum of 15,0001, allocated for insurance purposes. The company being out of debt in the property to the amount of 170,0001, and a surplus fund of 69,0001, an increased dividend of 7 per cent. was declared.

WAR STRAMMER FOR GREMANY.—The steam-ships Acadia and Britannia.

WAR STEAMERS FOR GERMANY.—The steam-ships Acadia and Britannia, so celebrated in the British and North American Company's mail service between Liverpool and the United States, have recently been purchased from that company by one of the German Governments. They are now in the Coburg Dock, Liverpool, undergoing the necessary alterations to their being converted into efficient war steamers. The passengers' saloon, on the main dack, has been cleared off, so that they will be flush fore and aft. Their armament will be of the beaviest description.

the heaviest description.

The Grological Society.—The members of this society celebrated their anniversary last evening, at the Thatched House Tavern.—Sir Charles Lyell, the president for the ensuing year, occupied the chair, and was supported by upwards of 70 members and friends of the society. Upon the chairman's right at his Grace the Archbishop of Canterbury and Sir Robert Peel, Bart, and upon his left were his Excellency the Belgian Minister and the Marquis of Breadshane. The following were also present at the banquet:—the Earl of Enniskillen, the Dean of Westminster, Sir Roderick Murchison, Sir Henry De la Beche, Major-General Sir W. Morson, Major-General Sir Charles Pasley, Sir E. Ryan, Sir Frankland Lewis, Sir Charles Lemon, M.P., Mr. Loch, M.P., Mr. Headlam, M.P., Mr. Bunbury, M.P., Col. Reid, M.P., Capt. Lyall, Professors Ramsay, Henslow, Playlair, Owen, Sedgwick, and numerous other gentlemen. Among the speakers of the evening were the Lord Primate, whose name was coupled with the British Museum, and Sir Robert Peel, to whom Sir Charles Lyell particularly referred in connection with the Hunterian Museum, and the newly-founded Museum of Practical Geology.

Most Wonderful. Discovery.—A German zoologist, named Brandt, has

MOST WONDERFUL DISCOVERY.—A German zoologist, named Brandt, has published some microscopical observations upon the remains of food found by him in the cavities of the teeth of an antediluvian rbinoceros, of which the Museum of St. Petersburgh possesses an entire cranium, covered with the skin. From these researches it would appear that these animals fed upon the leaves and fruits of fir trees, and that they had never lived in a tropical climate.

CORNISH STEAM-ENGINES.

Miner.	Engines.	Length of stroke	Load in pounds.	Load per sq. inch.	Strokes per min.		Million lbs. lifted 1 foot by consump. of 1 bush.coal	Lifted lft. by
Great Work		9-0	41,830	11.2	10.0	2069	55-4	66
Poldice		9.0	83,166	18.7	5.6	2276	54'5	65
South Frances		10.0		9.3	9.9	3968	53-9	64
		11.0		6.3	7.1	1560	86.9	67
	Taylor's 85-in.	11.0		15.8	7.0	3493	78.9	94 67
	Cardoza's 90-in.			13.7	8.6	4850	56.4	
	Eldon's 30-inch		13,631	16.0	7.6	452	69-4	83
	Loam's 85-inch			11.8	8.6	4158	541	64
	Hocking's 85-in			14.6	8.5	4922	38.0	69
	Gardiner's 80in.			11-0	7.4	3168	52-6	69
East Wh. Rose	Michell's 70-in.	10.0	64,025	14.9	4.7	1540	71-6	86

ARMA CHEDITIF HID OF COS	Company of the second s	17554
[Abstract from Browne's	Cornish Engine Reporter, from Dec. 20, 1848, to Jan. 20, FUMFING-ENGINES.	1849.]
Average number of stroke Gallons of water drawn pe Average duty of 16 engine tion of 1 cwt. of coals Actual horse-power emple	nch on the piston, in lbs s per minute ss—being million lbs. lifted I foot high, by the consump- yed per minute cals per horse-power per hour, in lbs.	AD:A
A H T ST Black College and the	BOTARY-ENGINES-WHIMS.	May
Number of kibbles drawn Average depth of drawing Average number of horse I cwt. of coals	in fathoms. -whim kibbles drawn the average depth, by consuming	19 69,778 132-3 47-0 16-4
a be good from them ?	AND ADMINISTRATION, NA PROPERTY LESS AND MICH.	1.0%
Average number of stroke Average duty of 4 engines	s per minute , as above	7 10·1 37·5 103·0
PU	MPING-ENGINES DOING HIGHEST DUTY.	H KO ho
Fowey Consols		96·1 92·0 85·1 73·5 73·1 68·6
	WHIM-ENGINES,	oga:
Par Consols		26·4 24·1 23·6 14·5
To provide the second	STAMPING-ENGINES.	15 0-
Tincroft	30-inch single	36-9-

PRICE OF MATERIALS,

Aller and the last	WROUGHT-IRON.	7.50
Plain evlindries	boilers, made of best plates, and best rivet iron 17s per	cwt
Whim kibbles h	amméred iron 18s	
Ditto n	alled 16s	
	8s eac	6
Washing tuba		
Tanagad god-plat	tes, hammered from scraps, 6 in. wide & under, in slabs. 13s per	cwt
rubated tog-lim	7 inches wide	OW S.
	8 inches wide 15s	
"	of in about mide and ander dited in length and bales?	
THE LOCAL DIST	bored, complete 108 91	0
19	with square holes, complete 17s ,,	10 CT
	7 inches wide, holes bored, complete 17s	2000
11	ditto, square holes, complete 18s	
	8 inches wide, holes bored, complete 188	0,000
	ditto, square holes, complete 198 ,,	
Miners' shovels.	278 ,,	10
Steel point ditto	, 478 m	251 11
Valve iron		200
Faggotted iron,	single 118 in	Egnit.
	double 13s	
Axle arms and s	hear moulds 13s	200
Grate plates, rou	gh 16s	
Ditto mid	die hole cut 22s	GE TI
Ditto fini	shed	Park Contract
Furnace bottoms	1	
Flat thread tops	and nuts 4d per	D.
Piston and air pr	amp-rods, complete	p. lb.
Piston rings, tur	ned 10d to 1	
Loops		1
Outer connection	caps 28s per	cws.
Chain, made of b	est scrap iron-11-16 and ‡ inch 218 ,,	
Hard Mary N.	inch 225	
0.14	9-16 inch 28s 6d	90
	inch 25s	
	7-16 inch 268 n	40
The Address of the Land	# inch 288	
Best boller-plate.	Shropshire 11s	
Kibble-plates, ha	mmered 16s ,,	60
	100	
"	[To be continued in next week's Mining Journal.]	

NEW PATENTS.

rer, and J. Milnes, Bradford, York, for impro-team-engines, and other first movers. thant, for improvements in matches, lighters, a bodies, in the mode or modes of manufacturis therein; also in match and other boxes. J. Giblett, gent., Trowbridg G. E. Donisthorpe, Leeds, i ments in apparatas used for J. Palmer, Camberwell Sur imilar articles, for igniting of he same, and in machinery a nachinery for manufacturing dge, Wilts, improvements in the, manufacturer, and J. Milner

me, and in machinery applicable therein; also in match and other boxes, and nery for manufacturing the same. Harris, Battersea, Surrey, shoemaker, a new or improved mode of preparing leath Brewer, Malcolm-place, Clapham, Surrey, and J. Smith, Southville, South Lambet, manufacturers, for certain improvements in the manufacture of paper and car, and in producing watermarks thereon, and also in apparatus and machinery

W. Brewer, Malcolm-piace, Gaprana, W. Brewer, Malcolm-piace, Gaprana, and Machinery to be used for such purposes.

C. Nickells, York-road, Lambeth, for improvements in the manufacture of woollen and other fabrics.

E. Newton, Chancery-lane, civil engineer, for improvements in engines, or apparatus principally designed for pumping water.

M. Townsend, Leicester, framework-knitter, and D. Moulden, of the same place, framework-knitter, for improvements in machinery for the manufacture of looped fabrics.

E. Newton, Chancery-lane, civil engineer, for improvements in machinery for holling and polishing rice and other grain, or seets. (Being a communication.)

E. Lord, Todmorden, Lancaster, machinist, for certain improvements in machinery, or apparatus applicable to the preparation of cotton, and other fibrous substances.

A. Chandois, Fanbourg du Temple, Paris, manufacturing chemist, for improvements in extracting and preparing the colouring matter from orchil.

W. C. Day, Birmingham, Warvick, iron-founder and weighing-machine manufacturer, for improvements in machinery for weighing.

H. L. Pattinson, Washington-bouse, Gateshead, Durham, chemical manufacturer, for improvements in manufacturing a certain compound, or certain compounds, of lead, and the application of a certain compound, or certain compounds, of lead to various useful purpose.

Dissolved Marwick, Britannia-ware manufacturer, for improvements

urpose.

R. F. Sturges, Birmingham, Warwick, Britannis-ware manufacturer, for in
the manufacturer of candlesticks and lamp pillars.
J. Erwood, Hoxton, Middlesex, paper-hanging manufacturer, for improve-nanufacture of paper-hangings.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ABTICLES OF UTLLIFT REPUBLICATION OF ABTICLES OF THE MACHINERY OF THE

NEW ROAD LEVEL

TO THE EDITOR OF THE 1

Sis.—In an advertisement inserted in your last week's number, there appears a statement, to the effect that Messrs. Robert and David Mushet have worked this collery. Messrs. R. and D. Mushet have worked this collery and, since the dissolution of their participality, Mr. B. Mushet has never worked it; therefore, as far as the latter individual is concerned, the statement is untrue, and calculated to mislead the public. Coleford, Feb. 12.
P.S. I have, moreover, a good legal opinion, that the alleged claim is rent, as put forth in this advertisement, against Messrs. R. and D. Mushet, is founded neither in law nor coulty.

Current Prices of Storks, Shares, & Metals.

STOCK EXCH.	ANGE, Saturday morning Eleven o'clos
Bank Stock, 7 per Cent., 196 5 7	Belgian, 44 per Cent., 82
3 ner Cent. Reduced Ann., 944 1 31	Dutch, 21 per Cent., 50\$
3 per Cent. Consols Ann.; 941 34	Brazilian, 5 per Cent., 82 Chilian, 3 per Cent., 55
34 per Cent. Ann., 95 41 Long Annuities, 94	Mexican 5 per Cent., 25‡ 5
India Stock, 104 per Cent., 945 7 8	Russian, 5 per Cent., 109
3 per Cent. Consols for Acc. 94# 3‡	Spanish, 5 per Cent, 181 171
Exchequer Bills, 10007.2d. 46 9 5 pm.	Ditto 3 per Cent., 291

MINES.—A fair proportion of business has been transacted during the week nd shares have generally maintained former quotations—indeed, in som instances, the supply has not proved equal to the demand. The advance in both tin and copper, as well as the improvement in Consols, contribute con

49.]

6·1 2·0 5·1 3·5 3·1 5·6

instances, the supply has not proved equal to the demand. The advance in both tin and copper, as well as the improvement in Consols, contribute considerably to the increase of business in the mining share market, especially in our dividend and leading mines. Shares in Devon Great Consols, and several in East Wheal Rose Mine, changed hands,

The business done in South Tamar Consols, and Heignston Down shares, have been large, and at advanced prices; the recent discoveries in the respective mines have induced buyers. Bargains in East Tamar have also been effected. Condurrow is stated to have improved; whilst the leading mines in the west continue to maintain the position represented last week. Treviskey and Barrier have been done, and are still in requisition.

Kingsett and Bedford shares have been in request, and several transactions done at our present quotations. The reported discoveries have caused this inquiry. Wheal Vincent shares have been done at quoted prices, and more are in coarse of negociation. In Birch Tor an important discovery has been made, and several shares have been done.

Another advance has taken place on tin, and on fine copper ½d. per lb.

Shares in the following mines have been done during the week:—Devon Great Consols, East Wheal Rose, Treviskey and Barrier, West Caradon, Tre-lawny, Condurrow, Trehane, Mary Ann, Stray Park, West Tolgus, Kingsett and Bedford, South Tamar, Tincroft, East Tamar, Herodsfoot, Birch Tor, Caradon Wheal Hooper, Heignston Downs, &c.

At the Caradon Copper meeting, on the 7th, the accounts from Aug. to Sept. showed a balance of 54k 17s. 10d. against the company. A call of 1k per share, being deemed necessary, was made, although arrears of calls, amounting to 190t, are due from the adventurers. The report is highly satisfactory, and with requisite and efficient machinely, and energetic management, there is little doubt of this mine being made a paying one within the present year.

The first general meeting of the Kingsett and Bedford Company was held at Exeter on M

late important discoveries.

At the Wheal Vincent meeting a call of 2s, 6d, per share was deemed requisite. The statement of accounts showed a balance of 51% against the mine for the months of Nov. and Dec. The agent's report was considered sufficiently encouraging to induce the proprietors to continue their energy.

At Wheal Sophia meeting the balance sheet presented a credit of 12% 5s. in favour of the the mine, with arrears of calls amounting to 245% 6s. The report of Capt. Carpenter (who had been called on to inspect the mine) was favourable to the continuance of operations. A call of 5% per share was made.

At South Wheal Trelawny meeting, a call of 10s, per share was deemed necessary. The balance in the purser's hands amounted to 244% 10s, from which. Jan uary cost 8%, and 128%, is to be deducted, the latter sum being the amount agreed to be paid for the damage done to some land. The reports of three agents, fully capable, from their long practical experience, to advise and consult on future operations, having been obtained, a committee was formed for carrying the same into operation.

At the Herodisfoot meeting the statement of accounts above the statement

tuture operations, having been obtained, a committee was formed for carrying the same into operation.

At the Heredsfoot meeting the statement of accounts showed a balance of 5771. 12s. 8d. in favour of the company; October and November sales amounted to 1866. 6s. 2d. The mine being now free from liabilities, may be considered in a position of paying regular dividends.

In foreign mines, the transactions have been principally confined to Barossa Range, St. John del Rey, United Mexican, and Australian; in the former, a large number of shares have changed hands.

The following arrival of specie has taken place since our last:—The Peninsular and Oriental steamer, *Madrid*, arrived at Southampton, on Thursday morning, having on freight 28 packages of specie.

HULL, THURDAY.—We have had a brisk market for shares during the week; and although they have not advanced even step with Consols, confidence is evidently increasing, not only among investors, but what is much more favourable to a further rise, among speculators. In consequence of the amonneement that the York and Newcastle will, in all probability, only pay 6 per cent. Instead of the 7 per cent. anticipated, that stock has gone flat. East Anglians are also duller, in consequence of the proposed further issue of preference shares.

RAILWAY TRAFFIC RETURNS.

Name of Railway.

Rway. Present ac-Rway. Price Div. Traffic Returns 1848 1849 1848

			-			-
Belfast and Ballymena	371	THE STATE OF	202	Ep.c.	£378	-
Birkenhead, Lancashire,& Chesh.	19	997,284	37	5 p. c. *	718	668
Bolton, Blackburn, & West Yorksh.	: 14	Contract of the	52	-	351	-
Caledonian	141	3,993.732	234	-	3824	-
Chester and Holyhead	84	3,014,602	224	4	1186	-
Dublin and Drogheda	35	774,875	33	-	701	657
Dublin and Kingstown	71	395,915	-	-	682	609
Dundee, Perth, & Aberdeen Junc.	47	544,554	26	8	902	650
East Anglian (Lynn to Ely)	671	1,167,104	32-4	-	702	432
East Lancashire	44	1,733,915	191	5	1888	1052
Eastern Counties and Norfolk	307	10,364,505	114	4	13249	12543
Eastern Union	814	1,522,232	125	-	1144	1082
Edinburgh and Glasgow	571	2,556,889	424	6	3189	3274
Edinburgh and Northern	78	1,722,213	124	4*	1640	612
Glasgew, Paisley, and Ayr	1024	2,286,353	54	100	2368	1634
Glasgow, Paisley, & Greenock	23	848,328	142	4	803	913
Gt. Northern & East Lincolnshire	110		101	5*	1606	1
Gt. Southern & Western, Ireland	131	2.844.897	331-3	49	3493	1754
Great Western	3052	11,608,815	102	7	17716	16839
Kendal and Windermere	101	174,600	254	-	101	91
Lancaster and Carlisle	70	1,476,102	55%	4	1746	1179
Lancashire and Yorkshire	1721	8,242,628	72	6	10899	8058
London and North Western	435	25,077,942	1404	7	37562	34178
London and Blackwall	4	1,299,675	84	1-12	571	686
London, Brighton, & South Coast	1624	6,284,812	354	24	6363	5909
London and South-Western	215	7,490,688	414	6	7760	6576
Londonderry and Enniskillen	144	154,643	16	-	11.75	135 .
Manchester, Sheffield, & Lincolnsh.	914	4.651,093	478	5	2817	1990
Midland Company	471	14,042,340	924	6	18702	17944
Midland Great Western (Irish)	50	725,332	184	4.	-	607
North British	99	3,163,450	164-4	5	2231	1716
Scottish Central	454	1,245,496	231	100	873	1000
Shrewsbury and Chester	47	780,272	201	5	1294	504
South Devon	554	1,789,351	16	-	1320	683
South-Eastern	1654	7,389,322	254	64	6625	6364
Taff Vale	38	820,056	THE CASE OF THE	61	1863	1541
Ulster	35	684,684	458	100	756	583
Whitehaven Junction	12	150,879	109	3	_	155
York, Newcastle, & Berwick	269	5,038,255	29	. 8	11715	9843
York and North Midlend	255∄	4,179,309	541	8	6139	5654
	EIG	F04-021633314V	130 E 137 TO	PER BUTTO	THE TATE OF	,
Amiens and Boulogne	761	573,338	10	4	1 1200	1 -
Dieppe	26		-	-	400	-
Dutch Rienish	571	- 1 CAT 19114	11	OHE !	790	794
Montereau and Troves	711	advala of t	Derman	Question in	1000	0.20
Northern of France	211	2,000,000	,92	-	12466	12146
Orleans to Bourges (Central)	1074		-	_	-	2219
Orleans to Tours	72	600,000	321	6	2723	2829
Paris and Orleans	82	2,011,720	31	124	6993	6987
Paris and Rouen	85	2,082,916	20-19	102	4654	6879
Rouen and Havre	594	-10021010	12-1	_	1958	2595
Strasburgh and Basle (monthly)	88	TAL PRINCES OF	6	1 200	6246	5899

Strasburgh and Basle (monthly) 88 6 6 6246 5892
West Flanders (ditto) 11 828 1047
Interest.—Total for last week, £175,097, being an increase of £27,598 over last year.

Eh ires.	Companies.	Paid	Ship.	Div.	cent.	Pr	ice.
22.500	Australasia canadas canadas canadas con contra con contra con contra con	£40			Controlled Springs	200	904
20,000	British North American	20				41	404
21 207	Commercial of London	90	CONTRACT	Desire.		10	
4.000	Ionian State	28	233.37	0000	STATE AT	941	05
£0.000	London Joint-Stock	10	*****	***		14	
20,000	London and Westminster	90		***	*******	24	
10,000	National Provincial of England	28	****	the same of	*******	24	
90,000	National of Ireland	903	*****	***		334	OW.
#0,000	Phantage of Treatment of the contract of the c	221		***		179	
20,000	Provincial of Ireland	20	20'00			404	401
4,000	Ditto New	10	****	444 8		15	
	South Australia	324		*** -		231	
20,000	Union of Australia	25		2.2		- 05	
10,000	Ditto New	24			*******	24	- 21
60,000	Union of London	-16		6		10	State of the last

躔	PRICES OF M	INING SHARES.
201 3(1)	BRITISH MINES.	BRITISH MINES-continued.
	Shares, Company, Paid, Price.	Shares. Company. Paid. Pri
1	512 Albert Consols 1 2	198 South Caradon 5 400
	512 Albert Consols	256 Sth. Friendsh. Wh.Ann 20
111	1024 AshburtonUnited Mines 84 - 10	256 South Molton 5 12
5	1624 Balleswidden 9 18 128 Balnoon Consols 25 25	206 Sth. Friendsh. Wh. Ann 20 236 South Motton 5 11 236 South Tolkuny 208 5 236 South Trelawny 208 5 2000 South Waites Mining Co. 2 1- 128 South Wheal Basset 110 192 236 South Wh. Frances 160 244 236 South Wh. Josiah 14 1000 South Wh. Maria 23 1000 Southern&Western, Irish 2 236 Spearne Moor 30 44 34 34 34 34 34 34
5	10000 Barwen from Co 51. 11	128 South Wheal Basset 110 190
,	4000 Regiord	124 South Wh. Frances 160 240 256 South Wh. Josiah 14-
0	1344 Dittil 101 111 2011011 50 174	1000 South Wh. Maria 21
a	100 Botallack 5 7	
-	120 Brewer	94 St. Ives Consols 9
	10000 British Iron, New, regis. 12 7 1 10 10 10 128 Badmick Consols 524 35 1000 Callington 20 14 1000 Camborne Consols 3 4 20000 Camborne Consols 5 4 20000 Cameron's Steam Coal 6 1 256 Caradon Copper Mine 9 3 256 Caradon Copper Mine 9 3 256 Caradon Wines 224 10 256 Caradon Wines 224 5 256 Caradon Wines 21 8 1000 Cara Brea 15 100 3000 Carhew Consols 14 5 5 5 5 5 5 5 5 5	94 St. Ives Consols
	1000 Camborne Consels 5 4	1000 Stray Park 42 18
,	20000 Cameron's Steam Coal 6 1	1024 Tavy Consols 6
-	256 Caradon Mines 224 10	6000 Tincroft
1	256 Caradon Wh. Hooper 21 8	58 Tokenbury
7	1000 Carn Brea 15 100	1899 St. Silvere Consols 1 1 1000 Stray Park 42 18 1800 Tanat Consols 3 1024 Tary Consols 6 1024 Tary Consols 6 1024 Tary Consols 7 1000 Tin Vale 22 5 1000 Tin Vale 22 22 1000 Tin Vale 22 22 22 1000 Tin Vale 22 22 22 22 22 22 22
8	3000 Carthew Consols	200 Trenane
	500 Comblawn 54 3	1 2000 Trenance
0	128 Comfort	96 Tresavean 10 150 120 Trethellan 5 . 17
	2560 Cook's Kitchen 14 2	1 120 Treviskey and Barrier 130 95
	2860 Cook's Kitchen	288 Trevean 14 3 100 United Mines 300 350 256 Wellington Mines 25 20 128 West Buller 10 150
	20000 Cornwall New Mining. 1 1	256 Wellington Mines 25 20
t	1024 Cosheon 41	200 West Caragon 20 125
1	128 Creeg Braws 120 60	256 West Providence 9 15
.1		West of Scotland IronCo 240 90
	1000 Cwm Erfin 3 4 300 D.Prior & Buckfastieigh 5	120 West Trethellan 5 25 256 West United Hills — 4
1	7100 Derwent	
	1024 Devon Great Consols 1 230	256 West Wheal Tolgus 211 . 8
П		256 West Wheal Tolgus 214 8
	2000 DIAKO WAIN	256 West Wheal Treasury 19 5 1024 Whiddon Mines 4 2
1	3000 Dyfngwm	107 Wheal Adams
ı	10000 Durham County Coal. 45 9 3000 Dyfngwm 10 12 512 East Alvenney 54 54 54 5500 East Birch Tor 3 35 112 East Caradon 47 47 2048 East Crowndale 66 4 512 East Combe Silver-Lead 64 65 128 East Pool 15 30	1000 Wheal Agar 8
1	2048 East Crowndale 64 4	1 943 Wheat Anderton 93 15
ч	512 East Combe Silver-Lead 64. 64	128 Wheal Ann
	128 East Combe Silver-Lead 0	128 Wheal Ann
1	94 East Wheal Crofty 125 250	120 Wheal Bal 51 20 256 Wheal Benny 141 2
	1024 East Wheal Fortune 2 3 128 East Wheal Rose 50 600 — East of Scotland Iron Co. 5 14	256 Wheal Blencowe 21 5 256 Wheal Bucketts 20 5 256 Wheal Calstock 5 12
1		256 Wheal Calstock 5 12 1024 Wheal Cond 1 4
1	123 East Wheal Seton 14 10 1280 Esgair Lii 5	268 Wheal Courtenay 124 15
1	256 Exinoor Wh. Eliza 6 6	268 Wheal Courtenay 124 15 256 Wheal Fortescue 64 388 Wheal Franco 27 18
1	1280 Esgair Lii	128 Wheal Harriet 45 100 Wheal Henry 24
-	4000 Com Mining Co for Ival 14 14	1024 Wheal Lawrence 3 3
	256 Gonamena 44. 16 128 Goonvrea 4 2	112 Wheal Margaret 79 200 512 Wheal Mary Ann 5 12
	128 Goonvres	208 Wheal Mary Consols., 604., 8
1	1200 Growa Slate Company . 5 5	120 Wheal Reeth 41 150 128 Wheal Rose 60 3
	6000 Heignston Down Con 11. 14-2	99 Wheat Seton214 700
1	512 Gt.Wh.Rough Tor Com. 181. 11 1200 Grows Slate Company. 5 . 5 256 Gwinear Consols . 7 . 1 6000 Heighston Down Con. 12 . 14 225 Herodsfoot . 27 . 24 10000 Hibernian . 124 . 14 229 Hobb's Hill . 6 . 4	180 Wheal Sisters 35‡ 5 494 Wheal Sophia 42 5
1	239 Hobb's Hill 6 14	128 Wheal St. Ann 30 35
1	1000 Holmbush	360 Wheal Trelawny
1	2048 Lamineroos will plants to 2	260 Wheal Trelawny 74 65 256 Wh. Tremaine (St. Ervan) 91 2
1	252 Lanarth Consols 10 128 Lelant Consols 90 60	255 Wh.17emanne(St.Ervan) 95. 2 1024 Wheal Tremayne. 95. 3 92 Wheal Tryphena. 140 255 1000 Wheal Vincent. 14. 25 125 Wheal Vincent. 14. 25 126 Wheal Vincent. 14. 25 126 Wheal Vincent. 14. 25 127 Wheal Williams. 25 127 Wheal Williams. 25 128 Wheal Tryphena. 25 128 Wheal Tryph
1	160 Levant 135	1000 Wheal Vincent 14 6
1		184 Wheai Vyvyan
1	956 Lostwithiol Consols 19 14	250 Wheal Williams 28 8 1024 William & Mary Worth 2 2
1	256 Lostwithiel Consols 19 14 6000 Marke Valley 10 14 5000 Mendip Hills 3 13 14 5000 Merionethshire SlateCo. 14 2	FOREIGN MINES.
1	5000 Merionethshire SlateCo. 11 2	15000 Asterian Mining Co 15 . 34
1	128 Metha	20000 Australian 3 6 10000 Anglo-Mexican Co100 12374 Ditto Subscription 25 1
I	20000 Mining Co. of Ireland 7 4 256 New East Crowndale	6000 Barossa Range 13 9
		3000 Bolanos 150 2 2000 Ditto Scrip 15 2 10000 Brazilian Ixperial 23 6-5
1	262 North Wh. Leisure 14 2 15000 Northern Coal Co. 23 2 128 Par Consols 55 1000	3000 Bolanos 150 2 2000 Ditto Scrip 15 2 10000 Brazilian Imperial 23 6-5
1	128 Par Consols 55f1000	12000 Cobre Copper Co 40 18
1		12000 Cobre Copper Co 40 18, 10000 Copiapo Mining Co 14 3, 10000 General Mining Ass'n. 20 10 — Guadalcanal
1	512 Plymouth Wh. Yeoland 61 10	Guadalcanal
1	osoo Phoswiddels Racheldon 10 10	20051 Mexican Company 59
1		5000 National Brazilian 30 3
1	10000 Rhymney Iron 50 13 10000 Ditto New 7 61 1000 Rosewall Hill 1 5	2000 Mexican & SouthAmer. 8 5000 National Brazilian 30 3 104000 N. Brit. Australasian 1 7000 Royal Santiago 10 5 11000 St. John del Rey 15 11
1		11000 St. John del Rey 15 11 13174 United Mexican Av. 281 38-
1	a trit or draft outer force and excess over a letter to	and the property of the control of t
1	*. We should feel greatly obliged by ager	uts, or others interested, furnishing us with

We should feel greatly obliged by agents, or others interested, furnishing us with such corrections for our Share List as we may not have received through our usual channels of information—our object being, to present us accurate a list of prices as can be obtained—to procure which, we solicit the aid of correspondents in general.

GAS-LIGHT AND COKE COMPANIES.

Shares.	Companies.	Harry Harris	Paid	. Div	p. cer	et.	Pri	e.
								15
1,000	City of London		100	******	10		240	50
1,000	Ditto New		75	** ** ** **	10		210	
4,000	Equitable		50		44		32	
				** ** ** **	- '01	** ** **	10	11
12,000	Gas-Light and Col	ce Chartered Co	50		6		48	49
6,000	Ditto New				6*		9	1
9,000	General United Ga	s-Light Company	50	*******	2		12	1
				** ** ** **				66
		tal			44*		54	56
7,000	Ditto New	*** ** ** ** ** ** ** ** **	38		41*		61	
16.17	Ditto Debenture		42		5		100	102
					6		60	62
3,000		* * * * * * * * * * * * * * * * * * * *					10	20
8,000	Ditto, Preference		50				20	30
		London					30	
1,000	Ratcliff		90		5		72	75
4,000	South Metropolita	n	25		6		21	28

MISCELLANEOUS COMPANIES

Shares.	Companies.	Paid.	Div. p. cent.	Price.
10,000	Assam Tea Company	£20		£3
	Auction Mart		£ 1	
	Australian Agricultural		1	
	Australian Trust			
	British Alkali		4	
10,000	British American Land			
	British Rock and Patent Salt		18	
	Canada		6	
-	City Bonds (Navigation)			79
1,800	Corn Exchange			
5,000	Droitwich Patent Salt	25		
2,700	Equitable Reversionary	95		
-	General Reversionary Interest		6	100 108
0,000	General Steam Navigation	14	14*	21
- 11 -	Hudson's Bay Stock			
2,100	Hungerford Market			
1,500	London Commercial Sale Rooms		11	31 32
8,000	London Reversionary			
300	Margate Pier		10	
	Mexican and South American			
20,000	New Brunswick	78		11.01
	Peninsular and Oriental Steam		7	
	Ditto	40		
5,387	Reversionary Interest Society	100	4]*	90
-	Royal Mail Steam		51	
	South Australian		6	
	Upper Canada		5	
	Ditto		5	
10,000	Van Diemen's Land	A 7 10 10 10 10 10 10 10 10 10 10 10 10 10		PERSONAL PROPERTY AND ADDRESS. II.
a plant	* Those marked with an asterisk (*) are div	idend per sha	ro.

LATEST CURRENT PRICES OF METALS.

ENGLISH TRON. a per ton.	POREIGN COPPER.
Bar, belt, & square, London £7 0 0	South American, in bond £73-75
Nail rods 7 10 0	ENGLISH LEAD. 9
Hoops 8 0 0	Pig
Sheets (singles) 9 0 0	Sheet 16 15 0
Bars, at Cardiff & Newport 6 0 0	Red lead 18 0 0
Refined metal 4-4 5	White ditto 23 0 0
Anthracite 4-4 5	Patent shot 19 0 0
Pig, No. I, Wales, cold-blast 4 0 0	POREIGN LEAD, A
Do. do. hot-blast 3 15 0	Spanish, in bond 15 10 0
Do., No. I, Clyde net cash 2 14 6 Stirling's Patent 7 in Glasgow 2 19-3 5	American ditto
Toughened Pigs in Wales. 4 0-4 5	The state of the s
Staffordshire bars, at the works 6 10 0	Blockper col. 4 12 0
Pigs, in Staffordshire 3-3 15	
Rails	
Chairs 4 5 0	POREIGN TINE
POREIGN IRON. D	Banca, in bond 4 17 0
Swedish 13 10 0	Straits 4 15 0
CCND 17 0 0	Peruvian (6 mo. 2) p. et. dis.)
PSI	TIN-PLATES.
Gourieff	IC Coke per box 1 8 0
Archangel 12 10-13	IC Charcoal 1 12 0
	IX ditto 1 18 0
FOREIGN STEEL. C	SPELTER. M
Swedish keg 13 10-14	Plates, warehoused,per ion 15 0-15 5
Ditto faggot 15 10 0	Ditto, to arrive
ENGLISH COPPER. d	EINC. 78
Sheets, sheathing, & bolts, p. lb. 0 0 9	English sheetper ton 20 0
Tough cakeper ton 84 0 0	Enguer aneceper ton 20 0
Tile 83 0 0	of the last a seed as a feet by an helpfulled
Old copper e per lb. 0 0 71	QUICKSILVER, 0 per lb. 0 3 6
	.; b, ditto; c, ditto; d, 6 months, or 3 per ct tto; g, ditto; h, ditto; i, ditto; k, net cash;

4.6 months, or 3 p. ct. dis.; m, net cash; n, 3 months, or 1½ p. c. dis.; e, ditto, ½ dis. REMARKS.—We have to note a further improvement in the iron trade generally. A considerable business is doing in all descriptions of iron for the home market, and for shipment to India, America, &c. The Welsh ironmasters are exceedingly firm at the late advance; and, as most of them are full of orders for some months forward, neither bars nor rails can be purchased except at full prices. Staffordshie iron is in great request, particularly hoops, sheets, and nail rods, and some of the largest makers are refusing orders at prices above the fixed rates. Very large sales have been made in Scotch pugi-iron during the week, and the market closes for large sales have been made in Scotch pugi-iron during the week, and the market closes for large sales have dappearance. We quote the price 53s. for mixed Nos., 54s. for all No. 1, and No. 1 Gartsherrie 55s. to 56s., not cash in 10 days, free-on-board at Glasgow. It is confidently expected that the American steamer, due at Liverpool early next week, will bring further extensive orders; if so, as makers are now fully engaged, there is little doubt that higher prices will rule for some time. English copper has been advanced this week \(\frac{1}{2}\)d. per lb., and English tin 5s. per cut.

GLASGOW PIG-IRON TRADE.

FES. 15.—A fair amount of business has been done in pig-iron this week, at improving prices. The purchases now making are chiefly in expectation of a good export trade in the spring. We quote the price at 52s. 6d. for mixed Nos., and 53s. for No. 1—cash. "Gartsherrie," a favourite shipping brand, commands 1s. 6d. to 2s. per ton more.

	The second secon							
	Comparative Note of the Export	8	of Pig	-Ir	on.			
			1846.		1847.	1848.		1849.
January, 1846-7-8	-9-From Clyde	3	7411		14300	 10482		9978
19	Port-Dundas & Kirkintilloch		9043		7390	 7073		5529
The state of the s	The State of the State of the William	-	-			-	14	
STATE OF THE REAL PROPERTY.	Total	. 1	6454		21690	17555	-0.00	15507

We have had an extensive demand for pig-iron during the past week; a good disastill exists at former quotations, and higher rates are looked for.—From a correspondent, who is extensively engaged in the iron trade, we have the following:—"Our pig-iron market opened this week with much animation, owing to the receipt of extensive orders for the United States for ba-iron, pig-iron, &c., and favourite brands for America fetched as high as 52s. to 54s. for No. 1; common brands, mixed Nos., 51s., at which prices a large business had been done. To-day and yesterday, however, the market has been quieter, and a shade lower.—No. 1, 51s.; and mixed Nos., 50s. 6d."—North British Mail.

LEAD ORES

	Sold th L	ondon.	A STATE OF THE PARTY OF THE PAR
Mines.	Tons.	Amount,	Purchasers.
Tamar	86	£19 18 6	Tamar Company.

COPPER ORES Sampled Jan. 24, and Sold at Swansea, Feb. 15, 1849.

Mines.	Tons.	Prod.	Price.	Mines.	Tons.	Prod.	Price.
Cobre	. 77	231 £15	11 6	Cobre	54	222 £	15 2 0
ditto	71	224 15	14 6	ditto	80	231	15 6 0
ditto	. 66	224 15	15 6	ditto	53	224	15 5 6
				Burra Burra			
ditto	. 55	22 15	1 0	ditto	56	324	22 19 0
ditto	. 70	224 14	18 6	ditto	51	. 284	20 2 0
ditto	. 65	28 15	1 0	ditto	49	. 294	21 0 0
ditto ·····	. 60	231 18	14 8	Glasony Slag	20	. 44	2 7 0
ditto*	. 63	224 14	18 6	ditto	15	. 31	1 15 0
ditto	. 62	228 14	17 0	LI STATE OF THE ST			

TO	TA	L PRODUCE.				
Cobre	17 16	0 Glasgow Slag 0 Vine Slag	82 35	£123 73	5	0
		The second second				

COMPANIES BY WHOM THE ORES WERE PURCHASED.

	Tons	0	23.111	uuu	
English Copper Company					
Freeman and Co	60		922	10	3
Sims, Willyams, and Co	133		1995	0	
Vivian and Sons	495	*****	7340	5	
Williams, Foster, and Co	416		6301	8	
Schnelder and Co	27		407	14	1
Total tons	1911		18,190	18	

Copper ores for sale March 1.—Cobre 115, ditto 112, ditto 88, ditto 60, ditto 58, ditto 45, ditto 39, ditto 12, ditto 83, ditto 72, ditto 67, ditto 66, ditto 64, ditto 63, ditto 61, ditto 52.—Copiapo 82, ditto 80, ditto 78, ditto 38—Knockmahon 118, ditto 110, ditto 28—Burra Burra 70, ditto 53, ditto 51, ditto 30—Berehaven 100, ditto 98—Forest Slag 64.—Total quantity of ore to be sold, 2056 tons.

COPPER ORES.

COPPER ORES.

NO SALE on Thursday last, February 15.

Copper ores for sale on Thursday uext, at Andrew's Hotel, Redruth.—Mines and Parcels.—Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Wheal Anna Maria 1826—West Caradon 289—Fowey Consols 260—Wheal Friendship 242—Marie Valley 150—Bedford United Mines 116—West Wheal Jewel 66—Wheal Mary Consols 57—Wheal Pink 55—Holmbush, 50—Treleigh Consols 50—Wheal Bucketts 46—South Wheal Fortune 31—Phœnix Mines 22—Tamar Slag 21—Polgooth 9.—Total, 2990 tons, Copper ores for sale on Thursday week, at Farquhurson's Hotel, Truro—Mines and Farcels.—United Mines 1427—Par Consols 296—South Caradon 263—Wheal Comfort 211—Tresavean 198—Creegbraws 135—West Trethellan 34.—Total 2564 tons.

CURRENT PRICE OF GOLD AND SILVER.

Foreign gold, in bars per oz. £3 17 9 | New dollars per oz. £0 4 10± "Portugal pieces.... 0 0 0 | Silver in bars (standard) 0 4 11‡

COAL MARKET, LONDON.

COAL MARKET, LONDON.

PRICE OF COALS PER TOW AT THE CLOSE OF THE MARKET.

MONDAY.—Batc's West Hartley 14 6—Buddle's West Hartley 14 9—Carr's Hartley 14 19—Chester Main 133—Davison's West Hartley 15—East Adair's Main 126—Hartley 16 19—Hartley 14 19—New Tanfield 13—Ord's Redheugh 12 6—Resensivorth West Hartley 13 6—Bouth Fontop 11—South Peareth 13—Stewart's Hartley 14 9—New Tanfield 13—Ord's Redheugh 12 6—Resensivorth West Hartley 13 6—Resensive 13—Walker's Primrose 13 19—New 13—Walker's Primrose 13 19—New 13—Walker's Primrose 14 19—New 14 19—14 19—14 19—New 14 19—Hartley 14—Resensive 14—Partley 14—Partley 15—Walker's Primrose 146—Morrison 15—Bradgrij's Hettom 15—Evons 146—Harwell 15—Recepter 15—Lambton 146—Morrison 15—Russel's Hettom 16—Evons 14 19—New 14 19—Carr's Hartley 14 9—Dorwentwater Hartley 16—Hartley 16—Hartley 14 9—Dorwentwater Hartley 16—Hartley 17 19—Howard's West Hartley 14 9—Dorwentwater Hartley 14 9—Carr's Hartley 14 9—Chester Main 13 6—East Adair's Main 12 6—Hartley 14 9—New Tanfield 13 6—Revension 14—Tanfield Moor 12—Townley 12 6—Wylum 13—Wall's End Bewicke and Co., 14 3—Brown's Gas 12 6—Franwellgate 14—Hedworth 12 6—Hotsput 13 6—Riddel's 13 9—Red Main 14 6—Lambton Primrose 14 6—Remont 16—Lyons 14 6—Hetton 16 5—Stewart's 15 3—Whitwell 13 9—Carado 15—Kellon 15—South Kelloe 14—Thornley 14 6—Wylum 13—Wall's End Bewicke and Co., 14 3—Brown's Gas 12 6—Franwellgate 14—Hedworth 12 6—Hotsput 13 6—Riddel's 13 9—Red Main 14 6—Lambton 15 6—Resenson 14—Seymour Tees 14 3—Cowpen Hartley 14 9—Hartley 13 9—Nixo's Merthy 20 6—Haswell 15 9 to 16—Lambton 15 6—Ressel's Hetton 15 3—Ships 216; sold 67 FRIDAY.—Carr's Hartley 14—Howard's West Hartley 14—Sexensowth Pelaw 18 6—South Fronton 15 6—Rosensel's Hetton 15 3—Stewart's 15 3—Benson 14—Seymour Tees 14 3—South Darham 14—Tees 15 3—Ships at market, 176; sold, 70.

New Old Ay.—A fine new schooner, about 138 tons burthen, has been launched

Nawquay.—A fine new schooner, about 133 tons burthen, has been launched from the building yard of Messrs. John and Martin Clemens, at Newquay. This being the first ever launched in the pier, she took the name of Trefry. She is intended for the foreign trade, and belongs to Captain F. Sankin and Co. She went off in fine style, amidst the cheers and admiration of the spectators.—Cornwall Gazette.

NOTICES TO CORRESPONDENTS. eases; not that their comment to us of their good fair

noticed, but as an assument to us of their good faith.

Investigator " is right in one of his corrections, and in error in the others. The quantity of cres sold in the liest quarter, under the head of "Cuba " in our statement, was, as there given, 1745 tons, of the value of 16,034f. Hz. The difference of 9 tons in quantity, and 70.17a. 6d. in amount, which our correspondent states to exist, he will find explained, if he will nefer to our Number of the 7th October, where he will see a sale under the head of "Cuba" of that saxet quantity and amount. Two small errors have crupt into the computed produce of capper. "Investigator's" statement has been retred to the party who framed our Table; and, on revising his calculations, he discovers an error in the sale of the 19th Oct of 6 tons 2 cwts., and in that of the 28th Dec. of 3 tons 5 cwts. The first of these he takes upon himself, as an arithmetical miscalculation. The last falls upon our shoulders, as a typographical error; 110 tons of our sold on that day, really of the produce of '45 per cent. was erronscoully printed it is per cent. Hence the difference. Had our friend, who framed the table with much industry, had access to the original Swansea printed list (which he had not), the error would not have been made.

would not have been made.

7. G. "Davy Halme).—In Germany, when the stuff is in the state you describe, about to like it muited with every fresh charge; the same could be done here in a reverberatory furnase: but if in large quantities, the bottom would be broken—indeed, it would not be practicable on a sand bottom, in consequence of the affinity of the iron for the siles. It will be most difficult to take a fair sample; your only course, we apprehend would be to pay for its being smelted, and this would be a most expensive and troublesome operation. Can you get a piece analyzed, and inform us of the component parts? ARTEVITOR OF ACCIDENTS IN COLLERIES.—We have received a communication from Mr. Heath, C.E., and mining surveyor, of Hanley, Staffordshire, in which he requests the effection of the public to a new method of regulating the currents of air in the readways of collieries, by fixing, in proper positions, atrong wrought-iron, or wood, framing, having doors fixed, thereto, to open upwards, or on one side only, as most definable. Also, a plan for preventing the spread, after an explosion, of the curbonic acid, by stoppings of brick or stone, orected elliptically in the drifts; and a plan for proventing the spread, after an explosion, of the curbonic acid, by stopping of brick or stone, orected elliptically in the drifts; and a plan for proventing the shall be happy to lay them before the public, through the medium of our columns.

A. "(Pool, Douset).—The specimen of mineral in the clay slate is arsenical iron py-dim of the columns. A. "(Pool, Douset).—The specimen of mineral in the clay slate is arsenical iron py-

has forwarded, is, to us, intaily initiations: our in which are a closed exception of any of his plans, we shall be happy to lay them before the public, through the medium of our columns.

4. A. (700, Donset).—The specimen of mineral in the clay state is arsenical fron pyrities; an excentisted sulphure: of iron, commonly called in the mining districts "white minudic." Its component parts generally range as follows: —Arsenic, 48:1; iron, 36:5; sulphur, 15:4—100 parts. It is from this ore that the white oxide of arsenic is principally obtained and artificial orpiment is also prepared from it. The other specimen, in which our correspondent "does not know what the shining scales are," is a true specimen of mice sales, composed of quartz and mice—the "shining scales," being the latter, while the smaller specimen, is also prepared from it. The other specimen, for that it is of the least industrial value. The component parts of mice usually are—51-lics, 47:35; alumina, 22:9; oxide of iron, 14:5; oxide of manganese, 17:5; potash, 14:5—100 parts. It is found in the north of Europe, particularly in Siberis, in large plates, even up to 24 yards square, and is used as a substitute for glass.

14:3-5. Carr (Pestonville).—We have received our correspondent's communication, in which he complains of illiberality in our remarks on his work on Raileay Lecomotion and Stans. Karigation, in last week's Mining Journal, and that, without cause, we accused him of mercenary motives. With respect to the latter charge, or observations will be found to be—"His threat. . . . to say the least of it, has the appearance of mercenary motives." And as to the general charge of illuberality, we can assure lift. Curr, that it is ever with regret we feel called upon to make observations derogatory to the character of any work, or which might tend to injure its author; while it gives us sincere pleasure to be enabled to speak in favourable terms of any publication sent us for review. On these occasions, however, the path of duty is broad and plain;

INFOCUTIONIES AND GLAMORGARSHEE BANKING COMPANY.—Siz: Will some of your correspondents oblige one with answers to the following queries respecting this company?—The number of shares originally granted, and to what amount? The amount paid up on each share at the present time? The amount of the dividends usually paid and the time of payment, and the present value of shares in the market?—A Subscripts: Forest of Dean, Feb. 12.

IBER: Forest of Decas, Feb. 12.

Micus " (Bristol).—Phosphorus kept under water in the dark becomes covered with hits opaque crust, which contains no water, but consists of pure phosphorus, and in heated above 104° Fahrenheit, melts again, with loss of weight, to the state of mere phosphorus.

when heated above 104° Fahrennest, meits again, with loss of weight, to the state or ordinary phosphorus.

F. Elliot (Sunderland).—Desires to inspect the Asturian coal-field, and inquires the best and easiest route ?—If you can bear the sea voyage, there are versels which every antumn start from Salcombe, in Devonshire, to Gijon, in the Asturias, to fetch nuts. They generally charge about 10L; but are very small, and the secommodations very indifferent. Different vessels start at other times from other ports to Bilboa and Santada; but this route is not to be recommended. If your prefer travelling overland, you take the ordinary conveyance from Paris to Bayonne; from thence there is a diligence through Vittoria to Burges, which takes three days and two nights on the journey; from this place, another diligence takes you to Vallodolid; from here there is a lumbering vehicle to Orisolo. It will be advisable here, instead of using this, which is constantly out of repair, to hire a muleteer, who will provide you with three mules for about 400 reals (about 5.4 sterling). You pass through Medina, Mayoria, Loon, and Micres to Oviedo, in about five days. The accumentation on the road are not some parts very fine; but you must not expect anything like the "monthing of an Fing-lish inn. When at Oviedo, you are in the centre of the coal-field, and can decide where to make your exerusions. The road is perfectly safe, and no dangers are to be apprehended from robbers. You might probably obtain some further information by writing to the office of the Asturian Mining Company, Austinfriars; they dispatch several vessels annually.

finer" (Redruth).—In Germany, the mines are not worked on tribute; the er paid by tutwork, or the quantity of barrels of stuff they raise; this is ntly dressed by other parties.

quently dressed by other parties.

Civis "(City).—California was first discovered by Sir Francis Drake; he anchored in the harbour of San Francisco the 17th of June, 1579. He gave the name of New Albion to the country, and took possession of it in the name of Queen Elizabeth. But no one being left there, and the British being compled in colonizing the eastern coast of America, it was neglected. The Spanisrus had previously touched there.

America, it was negocied. The Spainbrus has previously obscious interest. I. Seymour (Traro).—Dake Maximilian of Leuchtenberg (son-in-law of the Emperor) is the present director-general of the Russian mines; his predecessor was General Teberkin, of the Engineers, a distinguished Caucasian officer.

Copper "(Liekeard).—Phillips's Mineralogy, revised' and corrected by Alian, is generally considered the best English work published; it is, likewise, the latest—cost 15s.

rally considered the best English work published; it is, likewise, the latest—cost los.

W. D."(Tunstall).—There is no protection chaoper than by onesed (indeed, a cheaper one could scarcely be expected, since the cost is only one pusines); but the protection of a cavear, if it can be termed such, is but slight—it will increby prevent another from getting a patent, with a title similar to that of the caveat, and confer the right of opposing the grant of such patent; every opposition, however, involves additional charges.

L. B." (Wolverhampton).—Large quantities of chromate of iron are exported from America; there is likewise a great abundance of this mineral in the Scandinavian Peninaula. From it is extracted chromic scalid which, in combination with lead, forms the bright and beautiful pigment denominated chrome. Naitre chromate of lead is a rare mineral; its principal locality is Siberia.

C. "Pendington).—The paper on the Geology of Bissay arxived too late for insertion.

C "(Paddington).—The paper on the Geology of Biscay arrived too late for in Wilson (City).—The communication is not applicable for our Journal: you sho send it to the Horicultural Magazine, or some of the papers devoted to gardening.

and it to the *Horricaltural Magazine, or some of the papers devoted to gardening.

T. S." (Glasgow).—Coal and lead ore here been found at Spitzbergen; but as there is constant anow, and the coast is never free from ice, it would be found most difficult to work them. A small cargo of the coal was tried some years since, but found to be of an inferior quality: this probably, however, arose from the long exposure to the air, as the greatest portion of it was gathered on the beach. homas Ellis, jun. (Tredye from-Works), writes—"I have a pulley 4 ft. diameter, drawing one 14 in., at the rate of .90 revolutions; but I require to reverse the smaller, therefore must cross the strape. What is the best method to pravout the rubbing?" We think the friction might be materially decreased, by placing a revolving spindle between the two strape on fine bearings, top and bottom, which, in its revolutions, will prevent the reverse action of the band cutting.

nes reverse action of the same entang.

settler (Carligan).—There is no law to prevent any one making gas for his numerica. A small apparatus could be constructed at a cheep rate, and the districted would be very great. Probably, if such was eracted on your precedur would have to pay a larger premium on your insurance.

H. T. " (Lawton, Cheshire). —We shall be happy to receive the sketches, and a more tailed description of both the apparatus for blowing blasts, and the railway break reated by Mr. Thomas.

A count maser (North Wales).—A simple rock is one numbred homogeneous substance, whatever be its constituent elementary parts—as limestone, roofing slate, surpenium, &c. But compound rocks are composed of different mineral substances, either conversed by another mineral substance—as sandstones, puddingstones, &c.; or apprepated, which implies an intimate union of the parts without a cament—as grantle, &c. Cinatria."—The address of Mr. Alexander Forbes, the proprietor of the quickslive mines in California, is—Messrs. Barron, Forbes, and Co., merchants, Tepic, in the State of Jalisco, Mexico.

State of Janson, meason.

Gall-Anno Alana Warsta.—A description of the patent of Mr. J. C. Roberts, of Holywell, has already appeared in the Mining Journal.

B. S. "Regent's-park).—" Kilias " is a local Cornish term, for what geologists dealgnate "clay-alate" and "grauwacke slate rocks." The tin and copper veins of Cornwall abound in the killas and the contiguous granite.

Electricus" (Liverpool).—The electrotype process is applicable to copper place engrava-lags, medals, stereotype plates, ornamonts, and blocks for printing calleo and pape

as ant Reader" (Paris).—A French metre contains 39:37 English inches.

A Coins and Realize" (Paris).—We have received a report of the proceedings and waste-ful expenditure carried on in the property in which you are an adventurer; but until we obtain more authentic and less prejudiced information, we shall decline taking any socion. If a meeting of the most influential parties were called, according to your ac-count, much scandal would be avoided. You had better address yourself to them.

Lass or ruse Gollosical Survey.—Six: Finding, with much satisfaction, that thermaps of the Ordnance Survey of Great Britain are now sold at 2s. each, and the quarter sheets at 6d. each, I naturally expected to find that the maps of the Geological Survey, which were coloured on the Ordnance copies, were sold at a relative reduction. I find, however, that each is not the case, and the public have still for pay the extravagant price of 15a., 16a., and even 19s. for many of the siseets, and not one of them is reduced in price. Surely these maps, so useful to many, ought: to be now sold at such a price as will cover the cost of colouring and no more, which would reduce the price to about

d .- " E. G." (Carli le) - "G. S." (Ply

THE MINING JOURNAL Bailloay and Commercial Sazette.

LONDON, FEBRUARY 17, 1849.

The Mining Journal is published at about Eleven o'clock on Saturday merning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, as the Royal Exchange, and other parts of London.

office, 26, Floet-street, and can be obtained, before Twalve, of all news agents, at the Royal Exchange, and other parts of London.

The happy and encouraging improvement of the market, in everything that relates to mining and mineral property, is now far too obvious to need any extended comment. This process of improvement and revival has been steadily making head for several months past; and except, perhaps, in the particular instance of copper, and, consequently, in the mines producing that important metal, we doubt if it is really desirable that prices should ascend much higher than their present quotations; notwithstanding, we believe they will go further up yet. They may not for a month or two, as we are disposed to think, reach their culminating point; for, with the demand which a fast-rallying commerce is daily sending in upon the market, with wheat at 45s. per quarter, and the Three per Cent. Consols up to 94, it is hardly supposable that so important a class of articles as the home-raised metals can continue at their present figures. In the world of commerce, however, as in the physical world, there is between action and reaction an intimate relation and affluity. If prices are forced up rapidly and purposely, the method of their rising will but accelerate their fall. It is true that commerce, like the ocean, has its tides, but the less they are interfered with the less labour will be wasted, and the more fully the two great elements will accomplish their beneficial purposes. We want the markets to be preserved from frequent and artificial fluctuations, and also that mining, in all its branches, should put on the character of a settled business rather than of an irregular speculation. To adventurers and to practical miners, to all and to each, we may confidently say—"there's a good time coming"—a time when those who have commercially suffered from the operation of the new law, or from the disturbed state of the markets, continental and insular—a time, we repeat it, when their just success and their fa and insular—a time, we repeat it, when their just success and fair remuneration will be placed on a more permanent footing.

In some few passing remarks on the subject of the dreadful explosion at the Darley Main Collier, near Barnsley, which we felt it our duty to make in our last Number, we expressed our fullest expectation that the verdict would be "Accidental Death," from expectation that the verdict would be "Accidental Death," from the absence of everything in the shape of evidence, by which a more serious result could be brought home to any one or more individuals. The termination of the inquiry, and the verdict given, has fally met our anticipations; while the special nature of the verdict, and the recommendations contained therein, will, we think, prove the most powerful movement towards the establishment of something like system in the working and ventilation of our coal mines, that has ever yet been made, since public attention has been called to the dire and wholesale immolation of human life, which has so long been suffered to overwhelm whole districts with misery and despair. ever yet been made, since public attention has been called to the dire and wholesale immolation of human life, which has so long been suffered to overwhelm whole districts with misery and despair. During the inquiry which has been made in the case under notice, no certain data could be arrived at as to the actual and immediate cause of the calamity—not one soul in the vicinity of the explosion being left to tell the tale. There can, however, judging from appearances and the known habits of the colliers, be little doubt but that it arose from the carrying a naked candle, or an uncovered lamp, into the goaves, where an accumulation of gas had taken places; and the great object in any improvement in the ventilation of any particular mine, must be directed to secure a current of pure air, of sufficient magnitude and velocity to scour those worked-out portions, as well as all the roada and workings, and keep them free from any accumulation of carburetted hydrogen. On the inquiries which have attended all the great explosions within the last 20 years—the Jarrow, Hetton, Risca, and numerous others—the greatest sympathy was, on every occasion, shown for the sufferers; searching investigations took place, committees sat, and Parliamentary commissions were appointed; in every case, however, the first excitement being past, no recommendations were carried out in practice; and whatever suggestions, and however promising for good, might have been made, they appear to have been shortly lost sight of, and operations relapsed into the previous loose and dangerous practices. We trust, however, the inquest on the 75 victims to the Darley Main explosion will be productive of better things; there has been a step in the right direction, and a clear and unmistakeable expression of opinion on this occasion, which we never witnessed before; the coroner, the Government commissioners, the witnesses, who are highly respectable coal viewers and agents, and the jury, to a man, expressed a firm conviction, that the time had now arrived

before; the coroner, the Government commissioners, the witnesses, who are highly respectable coal viewers and agents, and the jury, to a man, expressed a firm conviction, that the time had now arrived when the lives of hundreds of our fellow-creatures must no longer be left to depend on the reckless conduct of themselves, or the prejudices or cupidity of underground viewers, or owners.

In their verdict the jury express their desire, "that Mr. Badder, the coroner, report to Sir George Geer, and that he make known to her Majesty's Government, that they think it advisable that a scientific and practical person be appointed occasionally to inspect the collieries in this district, see that there is proper ventilation, and hear any complaints by the workpeople employed therein." The important question now only arises, as to how is this desirable system of inspection to be carried out, in such manner as not to cause an unjust interference with the sacred rights of private property, and there is among the most intelligent and practical men a great and there is among the most intelligent and practical men a great diversity of opinion, as to the best means to effect the object; while diversity of opinion, as to the best means to effect the object; while there is, doubtless, a strong repugnance among mine proprietors and managers against all Government interference, who allege that the force of public opinion is sufficient to induce owners to adopt those improvements which are imperatively required. Experience, however, has proved the contrary of this, and that something more compulsory is necessary, to induce the adoption of the necessary means of safety and the defraying the necessary expenses. Our intelligent correspondent, Mr. Joshua Richardson, C.E., of Neath, in his work. On the Preparation of Accidents in Mines strongly advantaged. his work, On the Prevention of Accidents in Mines, strongly advo-cates a wholesome system of Government interference, and, as we have on former occasions expressed, we cordially agree with his views on the subject. He most truly observes—

views on the subject. He most truly observes—

"There are saw men who are so much exposed to bedily injuries and violent deaths as the colliers and miners of the United Kingdom. In other dangerois employments the Legislature has enforced the adoption of all available means for the prevention of accidents, and a strict observance of such measures as have been demned requisite to ensure body of men whose daily occupations are in the lowers of the earth, in the midst of darkness and sating language, and who are secladed from the observations of all distinctors the satince, have not received from the Legislature any measures of a protective or remedial nature st all commensurate with their measures. On the occurrence of any great calamity in our collieries, such as an explosion or an inundation, by which samerous lives have been lost, on the subsidence of the saxtisment, the subject has been lest sight of, until another accident happens, equally destructive to human life, and again attracts the public attention. In the fifth efforts which have been made to device remedias for these great and constantly recurring evils, some rainable infarmation has been collected by Parliamontary and other committees which were appointed for the purpose of instituting inquiries into the subject, yet, with the exceptions of the invention of the astety-lamp, and the law prohibiting hops under 10 years of age, and females, from being employed in mines, I am not aware that any other practical good has resulted from thom. As a class the miners are particularly entitled to every amount of protection that can be given to them by the Legislature. Coal, the principal produce of their labour, is essential to earn asiens existence, for without a plentiful supply of good fiet, the scenn-caegine would become comparatively necless, and our manufactures and commerce paralyzed. The antity of the capital invested in mines, the price of the coal to the consumer, in a great measure, depends. Scencely an accident can happen in a

igher price for his coal th therefore, are premeted by the avoidance of act, of any measures which would effect this, we tors and workmen, but to the consumers also."

We think there can now be scarcely two opinions on the subject, as to the necessity of some salutary measures being immediately adopted; and we trust, on the recommendation already noticed, Sir Gronge Grant will not suffer a month to pass without having well considered the subject with his colleagues, and be prepared with a bill to be brought forward for the consideration of the several members, interested or otherwise, of both houses of the Legislature.

Berg, interested or otherwise, of both houses of the Legislature.

Since writing the above, we are happy to announce that the subject was brought before the House of Commons yesterday afternoon. In answer to a question from Mr. Cayley, whether the Shorestand of Skale was prepared to recommend any mode for the regulation and inspection of mines, Sir George Grey replied, that he had placed Mr. Tremenhers, who was an inspector under the Act relating to the employment of children in mines, in communication with various persons largely interested in mining operations in this country, and in communication with large establishments on the continent, and that gentleman had farnished him with an interesting report, which would be laid before the House in a few days. The regulations which it recommended were too strict and minute to lead him to hope that they could be adopted in this country, but, at the same time, he thought it would be desirable that the Government should have power to inspect mines where the safety of the persons working in them was endangered, and to compel owners to adopt some measures for their protection. The subject was still under the consideration of the Government, but the difficulty was to provide an efficient system of superintendence, without involving a large amount of expenditure.

we find that M. Le Molt has published in French an explanation of his system, discussing seriation the details, which, having reached as late, we must delay communicating to our readers till our next Number. However, we may say that it will add little to our present means of forming a judgment, until we shall have the facility of examining the battery of which it treats. The data it contains might be received with some reliance from a Faraday or a Jacoba; but we mean no disparagement to M. Le Molt, when we decline to concede to him the right of controlling our opinions, whilst be ties up our hands by his patent of privilege, from examining the invention he brings before us To do so would be just as simple as to credit as realities the enchantments of the Wizard of the North. Far from us be the desire to forestal the time at which M. Le Molt may deem his plans mature; nevertheless, we cannot avoid again demanding, why it is that our leading professors have not been consulted in a case so exclusively and properly dependant on their adjudication? and, if consulted, why are they silent? We do not allude especially to M. Le Molt's battery; we extend our inquiry to his predecessor. Is it that an unfavourable response is contemplated? Possibly so; for, unless either or both of the systems of batteries comprised in the patents be more economic in producing the required effects than that employed at the Hanover-square Rooms, it is very probable that, in further mooting the question, the party will, as the lawyers say, "take nothing by his motion;" otherwise, why this delay? It cannot be to wait for the specification of Allman, who has had nothing to grasp at but the rejected or neglected objects of the others. Moreover, if we wait, for the exhaustion of specifications bearing on electric apparatus," parts of which may be applicable to electric light;" we shall never arrive at finality before all patience shall be lost, or some other wonder supersede this marvel of the day. Perhaps the inventors mistake their position, a

tarily, the latter. Such seems to be the view of M. Le Moll, which is by far more rational than the silence of his adversary—we speak not of Mr. Allman, whose modest seclusion is really quite unaccountable, if not suspicious in this scene of excitement.

We may be asked by Mr. Statte—What does it concern the public how our proceedings are regulated, or at what time we bring forward our apparatus? We answer, it does concern the public a great deal—we know of one of the first houses in St. Petersburg, charged with a project for forming a gas company, that has suspended the operation in consequence of the promulgated assertion, that the electric light was so far advanced as to supplant gas. The city of Munich was on the point of establishing, for the first time, a manufactory of gas, to dispense with its dim and dripping oil-lamps. The intention, we believe, is relinquished. Other cities, similarly in arrear of municipal progress, have, no doubt, received the startling announcement, which has disturbed our own sedate propriety, with equal surprise; the efforts of civic authorities to improve their internural condition, when deficient in the important requisite of artificial light, must be everywhere paralized; and last, though not least, the peace and repose of our deur and valued gas monopolies imperatively call for a speedy solution of our enigmatic relations with the patentees. Therefora we say that we must and shall know something more of the pretension of Mr. Statts and Mr. Lis Moll, for we are not bound to listen to the excuse that they are not ready. If they were not prepared, they should not have appeared before us. Those stage effects could be prematurely resorted to only from unworthy motives—a supposition we cannot entertain. Consequently, if these gentlemen do not speak out, we shall do so for them.

To except M. Lie Moll from the charge of tacitamity, is only simple justice, but there is something further wanted from him. Grant it, that M. Lie Moll declares the electric light (the subject of his inven

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we have the elements to satisfy our scientific associates. To Mr. Statte we recommend an early infitation of this proceeding of his rival "fize set et ab hosti doceri." If he pretend that his lecture at the Western Institute is a substitute, we deny it; and if he persist, we shall rever to it and tell him our reasons. It is one thing to give an ad daptandum popular illustration, where all dissent is deprecated or hashed—the literary world know how and why—far different is the deliberate discussion of a scientific subject through the medium of the press. In expectation that we should have, 'ere now, been invited to such debate, we have abstained from the consideration of its question, lett we should excite a prejudice against it when it is fairly brought forward. Even now we do not desire to make more haste than good speed. Should any sufficient reason be shown for procrastination, we will wait for the patentees' own good time; but, we trust that the cause to be assigned may not be Allman's specification, for, we say before hand, we will not accept it; as we have said, that would lead to interminable delays. Already a new and fourth inventor is in the field, Mr. Plence, who has applied for a patent, in terms nearly the same as Allman's. When we say a fourth patent, we have to admit an error in giving to Mr. Statte the claim of priority, for we find there were several patents antecedent to that of Stattes and Greeness.

The subject scems more prollific than we supposed, when it appeared to us that Mr. Statte the est, passing from its state of embryo. The accession to the series of electro-galvanic improvements, of which has yunjtomatic threes forwarn us, is likely to be precursor to an augmentation of a numerous progeny, though by no means united happy family. It will bear out our predictions of an extensive rivalry, by which the public must

ally profit; therefore, it is that we downed a writchful and just surveil-ce over the conflict of those who come forward to vindicate their pre-

finally profit; therefore, it is that we dounsel a writchful and just surveil-knee over the conflict of shose who come forward to vindicate shelr pretunsions to superiority.

Glad are we to find that proceedings in Chancery, the law courts, and that of the Insolvent Debtors, lead to the object so much desired—that of determining what is, and what is not, the law. The question has been oft put in our columns, as regards the Cost-book System; while we have good reason to hope that the one and other will be settled ere long, and that the blundering piece of machinery, called the Joint Stock Companies' Registration Act, will be exploded, and some rule of common sense and understanding laid down, whereby the public may know what are the intentions of the legislative enactment, without being compelled to resort to solicitors and counsel, whose main object, while they advocate the cause of their clients, is usturally "to keep the game alive."

We hast week entered on the case of the Wheal Lovell Mining Company, and have now to refer to a case, which came on in the Vice-Chancellor's Court, on Saturday last, Warner, Exica, which affords additional evidence of the necessity of something being done. In the one case, we find that a party holding 100 shares in a railway, and who was, perhaps, the allottee, receiving his letter of allotment, or scrip, sold his shares through a broker, receiving the payment thereon which was duly made by the purchaser, but who, however, it would appear, refused to register such abres, and by that means, avoided, in accordance with his ideas, any responsibility, for, although he had possessed himself of the interest, no legal transfer, or recognition, baving been made. Mr. Parca (the defendant) then being sick of his bargain, cried off, and, having refused to register the company, had no other resource than to proceed against the plaintiff, the consequence of which was an appeal to Vice-Chancertlook Knourt Barros, to have his opinion upon the matter head or register the same. His Honout, the V

er case presents itself, which came before the Insolvent Debtors' Court, being the first wherein the Joint Stock Companies Act was brought under the attention of the learned commissioners Act was brought under the attention of the learned commissioners. The case in itself was simple, but a brief narration may be useful to the many. The insolvents applied for shares, secured them, paid deposit, and signed the deed; this happened some years since, or, what may possibly be the case, for the report before is somewhat indistinct, and not having heard anything more of the returns to be made, or the premiums to be realised, he, quiet soul, thought that the bubble had burst, and that, whatever expectations he might have entertained, the matter had been brought to a close. However, to his cost, he tound such was not the case, for although some years had expired, he had been served with a rule from the Court of Common Pleas, rendering him liable as a shareholder under the Joint-Stock Companies' Act, on a Judgment obtained by an engineer for services rendered to the defunct Company, and having been taken in execution, he applied to the court for relief. The debts of the company were stated at upwards of 2000!.

Here, then, we have another illustration of the Joint-Stock Companies' Act, and the way it works. That something must be done,

panies' Act, and the way it works. That something must be done, becomes more and more manifest every day; and we believe we shall have occasion, in our next Number, to direct attention to the fast and loose game practised by companies, professedly working on the Cost-book System. A change must take place; honest and straightforward dealing, will, in the end, destroy the private job-hing and interested conduct of parties of no principle, or who only consider that principal is their interest, no matter how it is acquired.

ANALYSIS OF THE GOLD FROM CALIFORNIA.

BY T. H. HENRY, P.R.S.
This gold, which was kindly furnished me by Mr. Tennant, of the St was for the most part in flattened grains, or spangles, varying in weight from 1-20th of a grain to 2 or 3 grains, with occasional pieces weighing as much as

	The specine gravity was 10-96.		
Gold			88.75
Silver		**********	8.88
Copper			0.85
princeous 1	oddie	**********	1:40=99:88

IMPROVEMENTS IN THE MANUFACTURE OF IRON.

-1st, to the piling, and 2d, to the rolling of malleable iron.—1. Instead of piling the flat bars horizontally, as has hither to been enstomary, the outside of the fagot is composed of flat bars, dovetailed or overlapped, and placed at right angles to each other. The inside of the fagot is indee out of pieces of scrap or other iron, which are arranged vertically, or vertically and horizontally, whereby the bar, when rolled out into shape, will be of greater strength and less liable to laminate than those made after the old method.—2. The improved rolling mill consist of a main shaft, driven from any prime mover, on which is geared a spur whael, whereby the grooved rollers are driven. The first of the series of grooves in the rollers is open at the side, so as to admit of projection from the frame entering partially into this groove. The bar is frain passed through the second groove, and the indentation formed in the side; it is then caused to pass edgeways through the first groove, whereby the bar is reduced to the proper size, while the projection, taking into the indentation, prevents it being compressed out of shape. The bar is then passed through the rest of the grooves and through the rest of the grooves and finished. The form of the grooves may be varied so as to give any desired form to the top one. Above the rollers is a frame, which is made to travel backwards and forwards by means of suitable gazing driven from a pulley on the main shaft, and which carries a rod, to which is mapended the Claims.—I. The mode of pilling or famoting the flat bars.—Z. The rolling sable iron. -1. Instead of piling the flat bars he

to travel backwards and recording to travel backwards and which carries a rod, to water to backwards and which carries a rod, to water to backwards and rolling or fagoting the flat bars.—2. The rolling fall, in which the indentation is maintained by means of the lateral projection.—3. The mode of causing the rollers to revolve in opposite directions.—4. The atrangement of genting for driving and roversing the frame from which the last to be rolled in puspended.

DAVIES'S ROTARY ENGINE.

In the Mining Journal of Dec. 2, 1848, we noticed the specification of a rotary engine, patented by Mr. J. Davies, of Birmingham, and we have since received a report from Mr. William Dredge, C.E., being a description of an engine at work at the manufactory of Mesers. Edelsten and Williams, George-street, Birmingham, and also an experimental inquiry into the principle of that engine, with a view to ascertain its relative power and useful effect. The majority of practical engineers and individuals who have carefully studied the properties and capabilities of the steam-engine,

useful effect. The majority of practical engineers and individuals who have carefully studied the properties and capabilities of the steam-engine, have long been decidedly in favour of the reciprocating over the rotary principle, under whatever form it has hitherto been attempted to be introduced; many go so far as to say that the attempt to apply steam as a metive power to a body in rotative motion, in which the cubic contents of the steam-way must be continually varying, is bad in principle, and Mr. Dredge, in his introduction, confesses it was with some mingiving that his venor well be anything but favourable; for, in common with many engineers, he had a strong opinion against rotary engines, the prejudice was, however, much shaken after seeing the engine at work, and subsequent experiments entirely dispelled it. In his observations on the general principles of rotary engines, Mr. Dredge remarks, that notwithstanding the prevalent opinion against their practicability, there is not, in his judgment, sufficient reason for supposing that the rotary engine will not ultimately be made to succeed; for unless we are violating a natural physical law by constraining steam to move in a circular channel, the failures have arisen more from imperfection in the mechanical detail, than in the principle of the engine, and these imperfections the skill of the artisan may reasonably be expected, ere long, to overcome.

Having, as before stated, given the specification in a former Number, we now proceed at once to record some of Mr. Dredge's experiments. The engine has been at work at Messrs, Edelsten and Williams's needle manufactory upwards of 12 months, employed in turning wire blocks, pointing and heading machines, lathes, &c., when Mr. Dredge saw it, the work was about equal to 10-hore power, the pressure of steam in the boiler 18 lbs, to the inch, and that the coal consumed was 86 lbs, per hour, I he of which evaporated 9-8 embie feet of water. The coal was the ordinary Staffordshire engine slack, at 5s, per ton; this, h

SEPARATION OF GOLD FROM SILVER.—Much silver which is brought into the bullion market centains certain proportions of gold, and to separate which, by a process sufficiently economical to render the extraction profitable, had long been a great desideratum. This admixture of gold was particularly remarkable in the Sycee silver, which was sent to this country, to pay the Chinese was ransom, being extremely pure, with the exception of containing some portion of gold, which the Chinese have not learned how to extract. The method adopted here was by pouring the melted silver, while in a fluid state, into water, by which it becomes granulated, and offers a larger surface to the action of the acid afterwards employed; the granulated silver is then subjected to the action of sulphuric acid in a platina retort, and exposed to a moderate heat; as the acid has no effect en gold, the silver alone is taken up as a liquid sulphate, and the gold is precipitated in the form of a brown powder. 'The liquid is decanted off, the precipitated in the form of a brown powder.' The liquid is decanted off, the precipitated washed, dried, melted, and cast into an ingot of gold. The liquid sulphate of silver is now replaced in the retort, and copper chuppings introduced; this metal having a greater affinity for the acid than the silver, the latter is precipitated, and the liquor is transformed integsulphate of copper. The former is washed, dried, melted, and cast into ingots of silver; the sulphate of copper is evaporated and crystallised, and forms the mordant extensively used by dyers. Should the capper be required in a metallic state, nothing more is necessary than the introduction of scrap-iron, when the acid will combine with the tron, forming the sulphate of iron of commerce; the copper will be precipitated, and can be afterwards melted and cast.

PENN RECCA SLATE QUARRY, NEAR ASHBURTON, DEVON.—During the last week a number of additional men have been set to work at this extensive slate quarry. The adit tunnel is to be widened and improved, the rails to be relayed to proper gradients, under the superintendence of an engineer employed by the company. The depth of the quarry is 300 feat from the surface, the length of the tunnel 600 yards; the slate is considered infinitely superior to the Welsh slate, most of which is made for the London markets with great demand; and as soon as the improvements in the tunnel have been completed, almost any quantity of slate can be produced ready for the markets. We hope the respected adventurers will be amply remunerated for their spirited exertions.

New Coal-pit Ventilator.—The frightful loss of life occasioned by the recent-ceal-pit explosion at Darley Main, has doubtless instigated many humans and scientific minds to investigate the causes of these awful calamities, with a view to lessen their recurrence, or, at least, to diminish the fearful loss of life which too frequently results from them. Actuated by such praises worthy and philanthropic motives, our townsman, Dr. Dunn, has, we are glad to announce, succeeded in completing a very simple and apparently efficacious invention for the ventilation of coal-pits. We have been favoured with a view of Dr. Dunn's philanthropic motives, our townsman, Dr. Dunn, as, we are gird to announce, succeeded in completing a very simple and apparently efficacious invention for the ventilation of coal-pits. We have been favoured with a view of Dr. Dunn's model, which we could describe in a few words if necessary, but which, for certain reasons, is to be kept secret for the present; not indeed that Dr. Dunn contemplates any pecunsary advantage from his invention, but he is desirous that other persons shall not be anabled to make a profit of that which is instended solely to benefit maskind at large. It is well known that in coal-pit explosions the great majority of the sufferers lose their lives by suffication, only a faw comparatively being killed by the mechanical force of the explosion. It is known, moreover, that one of the main causes of these explosions is the imperfect ventilation of the pits; and it is to remedy this defect that Dr. Dann's contrivance has been invented. By this machine, it is calculated a constant and abundant stream of pure air, sufficient for any area, can be admitted into the pits. At present when a gafe of wind occurs it sweeps over the mouths of the pits, and forms an eddy therein; this eddy does not extend more than 6 or 7 feet below the surface of the earth, and it has not a sufficiently spiratory motion either to allow of the mephitic air of the pits ascending or the purer air to descend—a circumstance which obviously hastens the danger, and increases the force of the explosions when they do occur. Dr. Dunn proposes by his simple contrivance to convey the atmospheric air directly to the bottom of the pits, and, if necessary, thome by an horizontal extension of the machine to other parts of the pit where it may be required. The advantages of such an invention are obvious, and when we add that it may be erected at an expense of 5L, we have no doubt the cheapness as well as the simplicity and efficiency of the invention will cause it to be universally adopted. The machine will shortly be tested at one of

Original Correspondence.

THE BOVEY LIGNITE-FURTHER EXPERIMENTS.

SIR,—Since my letter on Bovey lignite, which appeared in your columns of the 3d inst., I have been making experiments to determine the relative proportions of fixed carbon, or coke, and of volatile and gaseous matter proportions of fixed carbon, or coke, and of volatile and gaseous matter contained in this substance, so as to furnish a more accurate means of estimating its value, compared with ordinary coal. The brown variety, containing not more than 3 per cent of ash, has been used throughout these experiments; the results are, therefore, far more favourable than an average specimen would afford. The coke, or charcoal, may be regarded as nearly corresponding to the amount obtainable on a large scale; whilst the water and tarry products would be less, and the gas rather more, than the proportions given below, from the latter having been passed through chloride of calcium, to render it anhydrons, in order to obtain its specific gravity by calculation from its volume and weight:—

	lat I	Experim	ent.	- 2	d Exp	er.	3d Ex	mer.	Average
Coke, with ash		34:87	****		38-6	-	. 39	2	37.556
Water and tar		48'57			49.0	*****	46		47-990
Gas		19.56			12.4		. 149		14.454
posteral estroay		minima		13.54	-		-	al simple	-
		100.00			100.0		100	0	100-000

If we deduct from the average amount of tar and water the average quantity of water, estimated in former experiments at 25 parts in 100, it leaves 22-99 per cent. of sarry products. The gas, collected over mercury, was examined for the usual constituents of coal-gas, and found to consist of chiefly of a mixture of light carburetted hydrogen, carbonic acid, and sulphuretted hydrogen, with a trace only of olefant gas; at a higher temperature, however, the proportion of the latter gas—the all-important one for illuminating purposes—would, I have no doubt, be much increased. The presence of sulphuretted hydrogen, indicated the existence of sulphur in the lignite, and a carefully-conducted experiment for its estimation gave 13 per cent.—the average quantity in coal being, according to Dr. Ure, from 2 to 5 per cent. This amount of sulphur is important, inasmuch as its comparative absence from lignite has been made a plea, if I mistake not, for recommending its os strongly in smelting iron.

From the above data, the following may be regarded as the average composition of the best, and I fear also the least, abundant variety of lignite. Two analyses of coal, by Dr. Thomson, are added for the sake of comparation:— Lignite. Splint Coal. Caking Coal.

mparison:—	Lignite.	Spiint Coal.	. Caking Coa
Charcoal	32 70	64.7	77.4
Ash reserves ervesses ve	3'56	95	1.5
Tar, &c	22-99		
Sulphur		352	3,00
Water	25-00	**** 90.5	
Gas	14.45)		o the model into
of free med added he was	with the filt man shirt	NAME OF STREET	20072 12 27
	100.00	109-4	101.5

On comparing the above, it is evident that the available matter for combustion does not amount, in the best lignite, to more than two-thirds of that in good coal; whilst in the clayey lignite it would be reduced to less than one-half. Were it not that my letter has been already extended to too great a length, I would add an analysis of the ash, and also some experiments on the gas obtained from the lignite.

Francis Rudall.
Laboratory, University College, London, Feb. 15.

DARLEY MAIN COLLIERY EXPLOSION.

Sin,-As no doubt your next Number will contain the closing of the inuest, and the verdict of the jury upon this lamentable catastrophe, I take leave to draw your attention, and that of your readers, to the present state leave to draw your attention, and that of your readers, to the present state of the question, in respect to Parliamentary interference. Since the year 1835, we have seen this subject handled by Members of Parliament, by public writers, by philanthropists of many grades, and practical persons, as well as by distinguished men of science; Sir H. de la Beche and other Government commissioners who acted with him, have reiterated their conviction that much good would be derived from Parliamentary interference in the saving of life, and improvement of our coal mines in general, yet no useful movement has been made by the Legislature, except the sending down of commissioners to give reports in regard to the casses which as well as by distinguished men of science; Sir H. de la Beche and other Government commissioners who acted with hin, have resirented their conviction that much good would be derived from Parlitimentary interference in the saving of life, and improvement of our coal mines in genera, you could movement has been made by the Legislature, except set which have produced as many afflicting and distressing colomities. Unidoubtedly up to a recent period there did present amongst colomores and viewers a feeling adverse to the adoption of Government inspection, which feeling was grounded chiefly upon the fear, that persons might be appointed to the office of inspectors who were not practically conversant with the requisite knowledge for conducting extensive collieries, and, herefore, might be induced to take such erroneous views of the subject, as to cause unnecessary expense to the owners, and annoyance to the practical persons concerned. There also existed great difference of opinion as to the extent of power which ought to be conferred upon sort functionaries, lest an arbitrary abuse of their power might operate prejudicially in other respects—hence the studied silence of colliery riewers upon this important subject, and the difference of opinion amongst scientific men, as exhibited during the discussions atthe. Engineer's Society, in 1847, where genitemen of high standing in the engineering world declared legislation upon coal mining management to be not only ungatory, but highly derrimental; however, we may now congratulate ourselves upon a new light having been thrown upon the subject during this inquest, and the expressed opinions of a colliery viewer and coalowner of high standing. Mr. Nicholas Wood.

Mr. Wood's ovidence goes to show—"That although the seam gave out very little gas, yet from a deficiency of general ventilation, further impeded by the pravailing high whinds, and by the drawing of water in tube at the upons shalt, that the workings became charged with inflammable int, which grauling love to the pro

couplished, weeks may elapse; and supposing lives should be lost in the meantime, how amentably obvious would be the want of compulsory power?

Assim: I am of opinion that inspectors would be naturally disinclined to act in too sammary a manner without stern necessity, lest, from an error in judgment, they might draw upon themselves the charge of rashness and precipitancy; but they would rather seek, by consultation and advice, to divide the responsibility between themselves and the authorised managers of collieries.

of collieries.

I will conclude by remarking that, since the subject is fairly before the public, it belongs to the respective mining populations to satisfy the Ministry that a system of Parliamentary legislation would be approved of, as likely to befriend the miners, not only in calamitous explosions, and the innumerable accidents to which they are exposed, but would also tend to furnish an useful medium, through which they might communicate with their employers, or with Government, so as to prevent those mischievous strikes, which too frequently demoralise and derange adopted systems in social mining.

other and important benefits might accrue from Parliamentary Legislation—such as statistics of population, powers of production, home consumption, and exportation of mining produce, &c.; but which would extend the subject far beyond the limits of this letter. I therefore confine these suggestions to the basis, as it were, of Parliamentary consideration—viz.: the saving of life, and the advancement of science in the working of mines.—MATT. DUNN, Mining Engineer: Newcastle-upon-Tyne, Feb. 14.

LOSS OF LIVES IN MINES.

LOSS OF LIVES IN MINES.

Sin,—The recent lamentable colliery accidents have suggested to my mind a mode, whereby the repetition of such casualties may be materially prevented. From experiments just made with the gutta percha tubing, I find that its power of conducting sound is so extraordinary, that a conversation may be distinctly carried on through a tube of but 1 inch diameter, at the distance of even three-quarters of a mile. If, therefore, this tubing be carried down the shaft to the various workings of the mine, and the extremities furnished with a mouthpiece and whistle, an instant communication, in case of danger, may be made between every part of the mine and the men at the mouth of the shaft. Feeling that we enjoy many comforts, purchased at great risk to the poor miner, and that it is our duty to protect him as far as we can, I shall be glad if you will give insertion to this in your paper.—T. B. Smithes: Bache's-terrace, City-road, Feb. 12.

THE DARLEY MAIN COLLIERY EXPLOSION.

THE DARLEY MAIN COLLIERY EXPLOSION.

SIR,—As I expected, the verdict of the coroner's jury, in the case of the Darley Main Colliery explosion, was "Accidental death;" and yet, with singular inconsistency, it is coupled with a condemnation of the imperfect ventilation, altogether inad-quate to the requirements of the mine. I mean here to record my positive conviction that there was, in the true and legitimate sense of that term, no ventilation whatever, or, at any rate, it was worse than useless. The air was divided into two currents; farther on, the current was again split, and then coalesced; currents were split and rejoined several times in their transit to the furnace and upcast-shaft. Moreover, the evidence of Mr. Nicholas Wood, Mr. Smyth, and Mr. Biram distinctly proclaim that the quantity of air was altogether inadequate, and even that quantity improperly managed.

Messrs. Wood, Biram, and Smyth seem to be skilful practical men, adequate to the task, and appear to have fearlessly done their duty. Mr.

Messrs. Wood, Biram, and Smyth seem to be skilful practical men, adequate to the task, and appear to have fearlessly done their duty. Mr. Smyth has recorded the following emphatic opinion—namely, that the quantity of air was insufficient, and that quantity ill applied. This is an honest verdict. With Mr. Smyth's sentiments, too, I entirely concurvize: that a good system of Government inspection might prevent accident. No doubt of it—the very thing I wish, and long for. It is not when the consumerated—it is a preventive of the work of decidings?" are consummated—it is a preventive of the work of decidings?" viz.: that a good system of Goldman and long for. It is not when dent. No doubt of it—the very thing I wish, and long for. It is not when "Death's doings" are consummated—it is a preventive of the work of destruction we sincerely desire. I may now venture to ask what practical good could have reasonably been anticipated from Mr. Tremenheere's mismission, who, by his own confession, had "nothing to do with the internal arrangement of mines!" We want intelligent practical men, like Messra. Wood, Smyth, and Biram.—J. Murray: Portland-place, Hull, Feb. 13.

CALIFORNIAN GOLD.

-While I do not doubt that California is the very Dorado it is re Sig.—white I do not doubt that Cathornia is the very Dordo it is re-presented to be, we may well believe that, to use the quaint language of Van Helmort, "unworthy and simple labourers will be cunningly de-laded." The other day, at an hotel, mine host showed me a specimen of "Californian gold," with all the gravity imaginable. It was a small por-tion of a slaty sandstone, with a profusion of minute lamine of yellow mical. The trite reverse "I is not all gold that ditters" "un or significant. tion of a slaty sandstone, with a profusion of minute laminæ of yellow mica. The trite proverb, "It is not all gold that glitters," was especially apposite in this case.—J. MURRAY: Portland-place, Hull, Feb. 13.

THE ANEROID.

THE ANEROID.

SIR,—Mr. Dent has enhanced the obligations of the public by an interesting brochure, descriptive of that elegant and useful intrument, the aneroid, prefaced by many excellent and apposite remarks on the various forms of the barometer, and its varied applications, inclusive of the symplesometer. There is one most important application of the aneroid, however, which has been inadvertently omitted—I mean its paramount importance in coal mines, where its premonitory indications will infallibly predicate an issue of hydro-carbonate, or "fire-damp." I strongly recommend the aneroid to the coal viewer, and to its premonitions he will do well to take heed.—J. Murray: Portland-place, Hull, Feb. 13.

MR. MUSHET'S DISCOVERIES.

Mr. MUSHET'S DISCOVERIES.

Sir.,—I hope that Mr. Anthony Hill will himself answer Mr. Robert Mushet's remarks upon Mr. Booker's speech at Swansea, published in your last paper; but fearing that he may not think it worth his notice, induces me to offer a few remarks. Mr. A. Hill never, that I can hear of, took credit to himself for the discovery of a method of working bloomery cinders; any farnace owner would be glad to have a heap of them, and find no difficulty in working them to advantage. But Mr. Hill did discover the method of working refinery cinders, and of converting them into good iron; and he is now the only ironmaster, I think, in Wales who works up the whole of the refinery cinders produced at his establishment, and whose iron (marked P F C.º) is allowed to be the best in Wales. Now, if the method of making good iron out of cinders was discovered by Mr. Mushet, why did he not impart his knowledge to some other ironmasters?

Again, Mr. R. Mushet snys that Mr. Hill took out a patent for the use of lime in the puddling furnaces. This I never heard of, but it may be true; for Mr. David Mushet, in his papers "On Iron and Steel" (note 4, page 480, on experiments No. 6 of C. Clouet's process for making caststeel out of bar-iron), writes—"The result of this experiment has since been beautifully developed by my friend, Mr. A. Hill, of Plymouth Works, who has shown clearly that, by a judicious application of flour lime in this process, any quantity of fibre may be communicated to bar-iron. So far, therefore, the elements of Mr. Hill's discovery may be traced to the result of this experiment. These are Mr. R. Mushet's father's words, and my impression is, that in these few lines he gives Mr. Hill the full credit of the discovery. Would Mr. R. Mushet give the credit of the invention of ships to the man who first discovered that an empty cockle-shell would of ships to the man who first discovered that an empty cockle-shell would float?—An Old (RETIRED) FURNACEMAN: Dowla's, Merthyr Tidvil, Feb. 12.

IRON MANUFACTURE.

IRON MANUFACTURE.

Sig.—In your Journal of the 10th inst is a letter from Mr. Mushet, commenting on a speech of Mr. Booker, at Swansea, in the latter patt of which it is stated—" Mr. Booker seems to entertain very correct views of the rational improvements of the talented Mr. Yates. The large piles of masonry, called blast-furnaces, in Wales and elsewhere, seem calculated and constructed on purpose to consume power and fuel, not to make iron; yet such are the natural advantages of the South Wales mineral district, that it has hitherto been a matter of indifference whether each ton of pigiron wastes 1, 2, or 3 tons of coal during its smelting. Mr. Yates is, in practice, about 100 years in advance of the present generation of smelters," Such observations from a speech of Mr. Booker, by the pen of a Mushet, are so far likely to mislead those not well experienced in the practical detail of the manufacture of iron, that I feel it a duty due to the public, and to ironmasters in particular, to endeavour to place this matter before your readers in a more correct point of view. Now, so far from Mr. Yates being a contary in advance of the present generation of iron smelters, I have no hesitation in saying he has very lately been about twice that time behind them, for two of his new blast-furnaces are little more than those found in the wilds of Africa by the late Mungo Park; and the fact of sheir not answering is exhibited fully to the view of all travellers on the Midland Railway, when near Chesterfield, where they will see the last of those

blast-furnaces just now completed, built very like the best now at work of about 60 years standing), and using similar materials in the same neighbourhood; and although Mr. Yates's is an entirely new work, the first engine and blowing-machine (a new rotatory one, blowing with fans, and made by himself) have already been removed, and replaced by an engine and blowing-machine, not quite in the most approved plan, as used by talented ironmakers of the present day.

Reb. 14. AN IRONMAKER OF THE THIRD GENERATION.

GOLD IN CALIFORNIA, AND OTHER COUNTRIES.

GOLD IN CALIFORNIA, AND OTHER COUNTRIES.

SIR,—At the Society of Arts, on Wednesday evening last, Mr. Tennant, in the course of his interesting lecture, mentioned that iron pyrites did not scratch; I have generally heard that, when cut with a knife, is leaves a brown streak. I do not say this applies to all the varieties; but surely to some. Dr. Mantell, likewise, made an observation, that opal was a vegetable matter; I have always imagined it to be nearly all silex. I have heard of the wood opal (perhaps the doctor meant this); and it would be desirable to know what are its component parts. I believe this is not considered to belong to the opal variety; but is a species of bastard variety below the German "halb-obal."

ONE SEEKING INFORMATION.

Charing-cross, Feb. 15.

EXPERIMENTS WITH CRADDOCK'S CONDENSER IN WATER.

Sir,—In a paper read by me at the meeting of Mechanical Engineers, held on the 13th of June last, which is published in the society's report of that meeting, and which also appeared in the Mining Journal, I stated, in reference to my mode of condensing in water, that 4 square feet of condensing surface was sufficient for 1-horse power, and that the weight of the condenser would not exceed 40 lbs. per horse-power. I am now in a position to state positively, because I have experimentally proved it, that with the steam used expansively, as I use it, 3 square feet of surface is sufficient to condense the quantity of steam which is equal to 1-horse power—that is, 33,000 lbs., lifted 1 ft. high per minute, whilst the weight of the condenser, is under 6 lbs. per horse-power. The experiments alluded to have not only falsified the imaginary objections raised to the use of my condenser in water, but have shown how far short even my own anticipations of its recommendations were, to those it actually possesses. It has been urged, as an objection to its use in water, that to give it motion in so dense a fluid, would absorb much power. It has also been asserted, that such motion would not be superior to the stationary surface condenser. The following experiments are a decisive answer to these objections. The pressure of the steam in the first cylinder was 100 lbs. to the square inch, the vacuum 26 im, the work the engine was doing during the experiments, according to the brake, was 20-horse power, the condenser had 60 square feet of surface in it, and weighs I cwt.; it is fixed in a cistern, the cold water enters at the bottom, and the heated water flows off at the top of the cistern; the motion is that produced by the bell crank, but in the experiments the condenser was worked by one man by hand. This arrangement enabled me to test the influence of motion in the condenser, as to how far it increased its cooling effect, as when it remained still in the cistern, the effect of the cold water flowing in at the top of the cister Sir,—In a paper read by me at the meeting of Mechanical Engineers, held on the 13th of June last, which is published in the society's report of 140°. The cause of this difference of temperature in the air pump obviously is the cold water flowing in at the bottom of the condenser, and the heated water flowing off at the top: whilst the exhaust steam from the engine comes in at the top of the condenser; and as it becomes condensed on its passage to the air-pump, it comes under the influence of the colder water entering at the bottom of the cistern; this cooling influence is much increased, as stated above, by the motion given to my condenser. The effect of motion in the condenser is so obvious, that the most sceptical must be convinced by their sense of feeling, as by discontinuing the motion of the condenser, the pipe which leads to the air-pump quickly becomes heated, but on again giving motion to the condenser it as quickly cools. In a future communication, it is my intention to give the result of some further experiments upon this matter. As I have before said, the experiments I have already made exhibit advantages much beyond what I had anticipated—so much so, that if it was not that the more I demonstrate as realisable by the invention, the more all those aids which are afforded to other men are withheld from me, I should have strong hopes that in a country such as England, such advantages would be appreciated. But, Sir, other men are withheld from me, I should have strong hopes that in a country such as England, such advantages would be appreciated. But, Sir, I have some thoughts, that to get a new thing appreciated in this country, it is necessary, to avoid the secret opposition of the interested and the envious, that it should possess but little value, or else emanate from those parties. It has been said, that to gain the convictions of men by an appeal to reason is an irksome task, but that it is much easier accomplished by an appeal to their passions. Hence it is, I suppose, that humbug and quackery find support, where reason and truth appeal in vain.

Birmingham, Feb. 14.

T. CRADDOCK.

THE ELECTRIC LIGHT.

THE ELECTRIC LIGHT.

Sin,—I take the liberty of offering, for the consideration of your readers, the following observations, which I deem necessary to prevent prejudice operating against one of the patents, and which I have till now deferred, in order to assure myself of the correctness of my first impressions.

From a journal, pretending to be an impartial record of scientific pursuits, a careful reserve might have been expected in giving judgment on any invention; and therefore it is to be regretted that an opinion, unwarranted by palpable facts, has emanated from such an organ, and compromised its character by a wholesale condemnation of M. Le Molt's battery. That a certain bias may influence a member of the press to point out, with more zeal than prudence, the weakness of one party, and to defend the faults of the other, is natural enough; but it is probable that a more than ordinary influence prevails in this instance. The peculiar privilege enjoyed by the journal in question, of exclusively publishing a verbatim copy of the patent of Mr. Staite, has made its pages the object of special reference to vast numbers, who have taken a deep, and no undue, interest in the subject. As an insignificant sequence, followed in the wake of that voluminous document, the account, unembellished and unaided, of its unpretending rival. The audacity of entering into the lists with the favoured champion, was treated like the temerity of a rough, though trusty, terrier, who ventures within the favoured precincts of my lady's lap-dog. "Turn out the vile creature," cries her ladyship, and John, the footman, remorsely kicks the rash adventurer down stairs.

Without urging my figurative illustration to run in quatour pedibus, I may say that M. Le Molt has met with pretty nearly the same treatment.

remorsely kicks the rash adventurer down stairs.

Without urging my figurative illustration to run in quatour pedibus, I may say that M. Le Molt has met with pretty nearly the same treatment at the hands of his commentator. "There is nothing good; there is nothing new; it is all paltry plagiary; the best thing he has is a poor imitation of one of Static's minor details. We had almost made this a saving exception, but must renounce the thought." Such, in effect, is the dogmatic conclusion ostentationsly appended in an editorial parenthesis. Had we heard that the improvements in the carbon battery were not to be accepted as points of practical utility until they had been fairly tested, it might have been said with full impunity, so far as I am concerned. But to shut' out investigation—to stife opinion, by rude or unfounded denunciation, is not to be borne; and, so long as I can raise my humble voice for "fair play," no such injustice shall pass sub silentio.

I care not by whom the contrary opinion may be expressed, I do not hesitate to record my belief that there is a great deal in the Le Molt battery worthy of remark. There is an idea aftoat that the carbon element of it is not new, and certainly I mysolf entertained the notion. But, having made every reasonable inquiry, I think it will be ascertained, that however well known its applicability for the purpose, no one has, ere now, proved its virtue. I had read of Coper's battery (substantially the same as Bunsen's, and, for like causes, similarly neglected being supplied with a gae charcoal, this left an impression that the negative element was the carbon actually so described is composed of simple coke, and is as little likely to interfere with our new acquaintance, as if it never existed. Therefore do I say, we should hesitate to condemn this element, till the question is seriously examined. Further still, if this carbon be admitted

as an element, the metallic coating by the electrotype process is a most essential improvement, of undoubted novelty, and of decided utility. I consider it, or some other means of intimate metallic association between the connecting straps, or wires, and the carbon element (not pasting on tinfoil), absolutely indispensable. Now, let us turn to the patent of Staite, and see what it is that we have to surpass this, as we are told—a coating of tinfoil, "which is the same thing." For what?—to form the metallic connections of the galvaric elements, forsooth? No such thing, but to cover the carbon points, and preserve them from humidity, previous to being applied to their destined production of the electric incandescence. Well may Mr. Staite exclaim—"Oh! save me from my friends," for no thing but a most unbecoming favouritism could have suggested a remark, which shows that the writer was incompetent to give an ordinary interpretation of the plainest language, or that he wilfully misrepresented it.

I have said enough for the present to counteract any evil results of the hasty confidence with which some may have received the remarks I complain of. I am unwilling to trespass further on your valuable space; perhaps I may revert to the subject. In the meantime, I beg most distinctly to be understood, that I am not the apologist of any party. Indeed, I take this opportunity of saying, that my views are totally different from those of M. Le Molt. Whilst he looks on any interference with gas as a chimera, I presume to occupy advisedly a more advanced and hazardous position in saying, I think the day is by no means distant, when the witty allusion of Purch will be literally realised, and we shall see the electric light partially, if not entirely, extinguishing its dult and offensive opponents.

The great justification for disbelieving that notion, arises from the com

sive opponents.

he great justification for disbelieving that notion, arises from the come is great justification for disbelieving that notion, arises from the come is great justification for the several pieces of machinery for regulating the carbon poles, see machines, as well Static's as Le Molt's, are very clumsy, evidently ting from no great effort of mechanical genius.

This is the consequence of the con These machines, as well Staite's as Le Molt's, are very clumsy, evidently resulting from no great effort of mechanical genius. This is the consequence of a disadvantage that scientific men frequently labour under. Devoted as they are to peculiar studies, they trust to their abilities to guide them in a sphere of art practically unknown to them, and they waste their giant efforts in striding through a labyrinth, to which the dullest journeyman mechanic could give them a short and simple clue. "An humble digger may show us a rich mine." If the fate of our two patentees were staked on their regulators, as we may call the mechanism of their lamps, we fear that they would be soon distanced in the race of inventions. Be that as it may, I anticipate that, before 12 months pass over, a vast progress will be made towards the realisation of the opinion I have risked. I need hardly fear the imputation of rashness in saying so, when we hear such sound practical men as Mr. Highton declaring that there are some electricians who contemplate (and who possibly are now working practielectricians who contemplate (and who possibly are now working practi-cally to the end), that, soon or late, we shall be enabled to render the sub-elest and most terrific agent in Nature subservient to our will.

Sages can, they say,
Grasp the lightning's pinion;
And bring down its ray,
From the starred dominion Let us dwell for a moment in thought on this newly-developed theory, nd it will be evident how comparatively modest are my pretensions.

City, Feb. 12.

F. W. C.

TRACKS OF TIMBER PAVING ON COMMON ROADS FOR STEAM-CARRIAGES.

City, Feb. 12.

TRACKS OF TIMBER PAVING ON COMMON ROADS FOR STEAM—CARRIAGES.

Sir,—As an auxiliary to the railway system, the adaptation of locomotive steam-engines, to travel economically on common roads, is an important consideration. Notwithstanding the failures which have hitherto resulted from the many attempts which have been made to accomplish this object, it is to be hoped that, by perseverance and skill, success may ultimately reward those who have so long and zealously devoted themselves to it. Without entering into the general question, or indulging in any predictions as to the results of new trials, so far as the steam-carriages are concerned, the expediency of some of the means proposed as adjuncts may be fairly questioned. One of these is mentioned by Mr. Motley in your Journal of the 3d inst.—viz.: "the putting down tracks of timber paving." "By adopting this plan," he says, "engines, but little different to those in use on railways, will answer the purpose, so that the difficulties which have attended the attempts at locomotion on ordinary roads will, in a great measure, be obviated." So confident is Mr. Motley that success will certainly follow the use of such means, that he says.—Neither your dubious correspondents, or direct opponents, will dare to dispute it, unless they are regardless of reputation." This, Sir, is rather a strong denunciation against any who unfortunately may happen to differ in opinion with Mr. Motley, but who may still have some regard for their reputation. Nevertheless, he must not be surprised if his assertions be questioned, and, notwithstanding the risk to be encountered, that some of your numerous correspondents should venture to doubt the excellency of the plan he recommends. There is nothing new in the proposition; timber has been applied to this purpose in various ways for at least two centuries; there is no difficulty, therefore, of testing the value of the suggestion to re-introduce its use. We have only to recur to the history of rail-ways and roads to ascertai

dent, Mr. Motley.

It may probably be said, that it is not in contemplation to use rails for steam-carriages, but wheel-tracks, made of planks, or wood paving. To both of these modes the same objections apply, and there are others of equal, if not greater, cogency, which may be urged, in addition to what has already been mentioned. If planks be used, the rapid destruction and waste of timber wil be very great. A short time ago, a road of this kind. has already been mentioned. If planks be used, the rapid destruction and waste of timber wil be very great. A short time ago, a road of this kind was made in Kent, and, as was to be expected, proved a complete failure. The wheels speedily wore (deep ruts in the planks, when they split, or broke, and had to be replaced by new ones, whilst only a small proportion of the timber was actually worn away. Different kinds of wood were tried, and great pains were taken in properly laying and bedding the planks, but with no better result. The interruption caused to the traffic by the frequent repairs required, and the great expense of labour and timber incurred in consequence, induced the proprietor to abandon the timber track, and substitute iron ralls. A very considerable reduction in the cost of the traffic ensued on this change being made, and it is now earried on without those inconvenient interruptions which were so frequent where timber tracks were employed. This objection, however, does not apply with equal force to tracks formed of timber blocks or paving; but there is another difficulty to be encountered and overcome before this mode of using such a material can be safely recommended. It is well known that, in wet or damp weather, even on iron railways the adhesion of the driving-wheels of an engine is so much diminished, as very considerably to impede its progress, and to render the starting of a train, or its ascent up an inclined plane, a matter of difficulty. This is caused by the "slipping" of the wheels on the rail, and is evidently a serious inconvenience. Those who have observed the effect of wet, or damp, on the wood pavement in London, will readily appreciate the force of the objection to such tracks for steam-carriages. Its great slipperines far exceeds that of the iron rails, and renders even an attempt to walk upon it somewhat difficult. Taking these facts into consideration, it is surely no great "daring" to dispute the probability of steam carriages ever being able to ascend the steep and abrupt hills, so common on turnpike roads, by these means. Until these difficulties, however, be overcome, it is evident that there are insuperable objections to the use of timber for such a purpose, in which ever way it may be employed. If the steam-carriages cannot be so constructed as to travel profitably on Macadamised and paved roads, recourse might possibly be had with advantage to light iron rails, or, if this be objected to, some wheel-tracks might probably answer the purpose, Such wheel-tracks, constructed of hard marble, have long been used in Florence; and in 1830 similar tracks, made of granite, were laid down in the Commercial-road, London, under the superintendence of Mr. James Walker, C.E., the benefits, or disadvantages, of which may be easily ascertained. On the coal wharves, in this neighbourhood, long narrow straps of iron (6 in, wide, and 12 it, in length), made of boiler plates, have been advantageously substituted for the ordinary timber wheeling planks. These circumstances are mentioned, not as advising the adoption of similar means, but merely to direct Mr. Motley's attention to them, and to show that, if wheel-tracks be indispensable, it does not necessarily follow that they should be constructed of timber, which experience has proved to be units for such a purpose. Stone and iron plates may be tried, at least experimentally, and adopted or not, as the results may warrant.

Neath, Feb. 10.

LIMPROVEMENTS IN WORKING RALLWAYS.

IMPROVEMENTS IN WORKING RAILWAYS.

[Specification of patent granted to Samuel Thornton, of Birmingham, merchani, at smee Edward M'Connell, of Wolverton, Buckinghamsbire, engineer, for improvemen steam-engines, and in the means of retarding engines and carriages on railways, at connecting railway carriages or waggons together; also, improvements in effecting municiation between one part of a railway train and another, by signals or otherwise.

These improvements consist, in the first place, in forming the piston of packing rings, having conical interior surfaces, and causing the surfaces of other rings-also made conical, but in a reverse direction-to act agains them. Elastic metallic discs rest upon ledges, made at the inner sides of

other rings—also made conical, but in a reverse direction—to act against them. Elastic metallic discs rest upon ledges, made at the inner sides of the same—spiral springs being interposed between such discs, and pressing them outwards; thus the conical surfaces of the second-named rings press against the interior conical surfaces of the first-named, or packing rings, and close contact with the sides of the cylinder is thereby maintained. These improvements consist also in a novel arrangement of steam-engine chimneys and blast-pipes. To increase the draft in the chimney, without adding to its height, it is proposed to form in the chimney of a locomotive engine several shafts, and to have the like number of blast-pipes in the exhaust pipe, so that there shall be provided a blast-pipe for each shaft of the chimney.

These improvements further consist in a novel arrangement of the eduction passages, effected by forming an additional opening in each passage, with a valve fitting such opening, each end of such valve being fixed on the spindle of the steam valve; immediately opposite the additional openings, at the other side of the valve chamber, are other orifices, which, upon the alternate uncovering of such additional openings, allow the steafit to pass from the cylinder to the chimney—thus facilitating its escape, and effecting the reduction of back pressure on the piston.

These improvements further consist in attaching the buffers to the axles, instead of attaching them in the usual manner, or they may be suspended in a frame connected to the axles—thus bringing all the buffers into the same horizontal right line; and such buffers are to be formed hollow, containing a chain that extends from the engine to the carriage, where the guard is seated. Upon a pulley, keyed on the axle of a friction wheel, each end of this chain is wound; and, upon bringing down such friction wheel upon the periphery of the running wheel, the same will make a revolution with the pulley, whereon the chain will be wound, and a signal com

office and Designs Registry, 210, Strand, Feb. 15.

THE BALLOON RAILWAY FOR CALIFORNIA.

The novelty of this announcement having attracted our attention, w The novelty of this announcement having attracted our attention, we were induced to visit the patentee, who obligingly showed us his model of the projected railway. The principal new feature presented in the present scheme is the avoiding of all cuttings or tunnellings, and by simple machinery, being able to overcome the difficulty of guiding balloons, or other scrial machines, to a given point. In the construction of his railway, the inventor proposes that large solid planks should be laid on a line of road; on these, an elevated chair, or saddle, of iron, or wood cased with iron, should be securely fastened; on this a species of tram would run—the wheels of which, instead of running on the rails, as at present practiced, would, by the assistance of grooves, slide underneath the saddle, which would secure them from slipping from their places; to these a line would be attached, communicating with the balloon, which is not to be elevated higher than 40 or 50 ft. The propulsion of the wind on the balloon is supposed to be of sufficient force to work the trains at a rate of 50 or 60 miles an hour; while the weight of the train and the guide rope would keep the balloon from swerving from its place. It is propounded that a given number of balloons could start from Washington with a favourable wind; as these would all be going in one direction, no possibility of collision evold occur. Should the wind not be directly fair, it is proposed, by the assistance of salls, or other machinery, to make use of the wind from other points of the compass, as in a ship; in this case, the running train would, to a certain extent, act as a radder. In case of being becalmed, passengers might be lowered by means of ropes in a car. The balloon is supposed to have such motive force as to be able to carry the trains over hills and down declivities; and in this manner the inventor proposes to conquer the difficulties of tunnels and cuttings; while, on marshy ground, the line would be carried over upright timbers, tirmly secured. The same b were induced to visit the patentee, who obligingly showed us his model to California, on arrival at their termini, to return to their place of embarkation, as soon as a favourable opportunity occurs. It is not the intention either to carry ballast or let out the gas at the stopping points. There is also exhibited a model of what the patentee terms a "whoel sigged ship," a slight description of which will be found in our advertising columns. The idea suggested itself from the continual description of vessels on the South American coast for the gold districts of California, and the plan enables the ship to be worked by the lame and the blind, who could not be induced to run away, but would be ready to work the ship home when required. Although unlike anything we have before heard of, the principle of action is simple and appears feasible. It is certainly worthy the attention of shipowers trading to Chili, California, &c., and an inspection of the model at once conveys a good idea, of the proposed plan. The models can be seen every day at 30, Great Portland street, where the patentee gives any information or explanation that may be required.

GRIST'S REVOLVING FURNACE.—This furnace is stated to po perior advantages to any of the same kind which have hitherto been before the public. The fire-bars, which revolve in the usual way, are loose in the revolving frame, and are cast either singly or in series of three or feur; and when one, or one of a series, gets out of order, it is easily taken out, and another slipped in its place. The fuel is fed from a hopper over the front of the furnace, and the atmospheric draught is thus not interfered with; while the same mechanical movement which causes the hopper to throw a fresh feed of coal into the furnace, pushes simultaneously forward into the heart of the furnace the preceding supply which had then become coked; the feed is thus kept in an exact ratio with the consumption, smoke is prevented, and the maximum heating effect is obtained from any given quantity of fuel.

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OAK FARM COAL AND IRON-WORKS, STAFFORDSHIRE.

the matter of ALEXANDER MACNAIGHTANE PATERSON, JOHN WALKER, JAMES BOYDELL, and CHARLES BLANET TREVOR ROPER, late of the Oak Farm Works, in the parish of KINSWINFORD, in the county of STAFFORD, ironfounders, frommasters, and edge tool manufacturers, dealers and chapmen, and co-partners, against whom a FIAT IN BANKRUFTCY, dated the 11th day of February, 1848, hath been issued.

TO BE PEREMPTORILY SOLD

munit to an order of the Right Honourable Sir James Lewis Enight Bruce, Knight, of the Vice-Chancellors acting in bankruptcy, dated the 28th day of March, 1848, made on the petition of Sir Stephen Richard Glympe, Bart, and others, and, also main to an order of John Balguy, Esq., Q.C., the commissioner acting in the pro-ion of the above-numilioned flat, made the 21st day of September, 1848, by virtue or ar the authority of the last-assentioned order)

AUCTION, BY MESSRS. OATES AND PERRENS,

BY AUCTION, BY MESSRS. OATES AND PERRENS,
AT DEE'S ROTAL HOTEL, BIRMINGHAM, in the county of WARWICK, on Tuesday,
the 5th day of April next, between the hours of one and eight o'clock in the afternoon,
in one or more lot or lots, as may be agreed on at the time of asie, and subject to conditions then to be produced. All those very extensive and celebrated COAL, IRON, and
STEEL WORKS, BLAST FURNACES, MILLS, FORGES, DWELLING HOUSES,
LANDS and premises, with the valuable MIRES of COAL, IRON-STONE, FIRE BRICK,
and SUFFACE CLAY, and all other the MINES and MINERALS remaining angotten
in and under the same, situate in the several parishes of Kingawinford, Himley, and
3edgley, in the county of Stafford, and late in the occupation of the Oak-Farm Company,
well known as the

OAK FARM COAL AND IRON WORKS,

Comprising the COLLIERY, BLAST FURNACES, and MALLEABLE IRON WORKS, with the buildings, shops, offices, workmen's dwelling-houses, and appartenances thereto respectively belonging, together with the fixed plant and machinery, &c., as hereunder flestribed.

Again about 18 acres, near to the above, the whole of the mines under which remain ungotten. These fields contain, in addition, a valuable mine of foundry sand, from which remain ungotten. To the Mines and Minerais as above, 18 pit-shafts have been sunk, with the workings, gate-roads, headings, engine-pits, drifts, &c., complete.

The IRON-WORKS consist of two blast-furnaces, with superior blowing-engine, 60-hurse power, in brick engine-house, bollers, blowing apparatus, pipes, &c., complete to the tayeres, and water balance left to raise the materials, large casting-house and foundries bridge-house, &c., refining and blast-pipes to ditto, and brick-built stoves to foundry.

The MILLS and FORGES have several plants and machinery, arranged as follows:—Mill-engine of 80-horse power, in brick engine-house, with three boilers and seating, flues and chimney-stack.

Main machinery, timber frames, cast-iron shafts, wheels, and carriages, comprising the motive-power from the engine-to all the roll-trains and shafts to the shears, turning-inthe and rall-saw, and terminating at the point of connection—namely, where the motion to each part is disengaged, or connected, for working the fast of faced crab.

Nos. I and 2 forges, condensing-engine, of 50-horse power, in brick engine-house, and stacks, with one boiler, seating, flues, &c.

Main machinery, frames, shafts, wheels, and carriages, all as above described, and to the point above imited in the mill, two hammers, with earn rings, &c., complete. The above mill and forge-works are enclosed, and covered with spacious roofs, supported by cast-iron plants and brick walls.

No. 3 FORGE (worked by portable engine), main machinery, frames, shafts, wheels, and extrince all as hefery amond and limited, complete to the fast crabs of the sheets.

the point above limited in the mili, two hammers, with cam rings, &c., complete. The above mill and forge-works are enclosed, and covered with spacious roots, supported by cast-iron pillars and brick walls.

No. 3 FORGE (worked by portable engine), main machinery, frames, shafts, whicels, and carriages, all as before named and limited, complete to the fast crabs of the sheet-rolls, and the guide roll-train, iron helve, forge with cam ring, &c., complete. Three string boilors, with seating and flues, and large chimney-stack to ditto.

STEEL-WORKS, consisting of two furnaces, casting-house, shops, and warehouses, FIRE BRICK and CEMENT CLAY WORKS.—Steam engine of thirty-horse power, in brick engine house, with two boilors, seating, flues, &c. Fly wheel and machinery for grinding, lifting, and tempering clay, with extensive buildings for the same, namely, six large drying stores with ficors; flues and fire grates, and six kilns to ditto, with furnace, offices, sheds, &c.

The whole of the Fire-dlay Works are now occupied by Messrs. Chance, and Co., and will be sold subject to the terms of the agreement or arrangement under which they now hold the same.

Also four rod brick kilns, with valuable mine of surface or red brick clay.

GAS WORKS.—Brick retort house, with flues and chimney stack, and brickwork to gasometer tank, &c., exclusive of the metallic part.

Brick built smiths' and fitting slopes, stace houses, and foundries, and also millwrights', pattern makers', and engineers' shope, buildings, &c.

Engine shed and store room, latch house, boiler shops, and tube mill, and a number of shops for various manufacturing purposes.

Adjoining the works are large and commodious offices, with dwelling house, stable, and outbuildings attached.

Canal basin and two large warshouses, with boat loading slips in each, on the Stourbridge Extension Canal.

Beain wharf and railroad in the occupation of Mr. B. Gibbons, under an agreemennt for lease for 21 years, from the let of Desember, 1845, and will be sold subject to such agr

Also thirty-nine WORKMEN'S TENEMENTS or DWELLING-HOUSES, with garden appartenances thereto belonging, man to the works.

Also thirty-nine WORKMEN'S TENEMENTS or DWELLING-HOUSES, with gardens and appartenances thereto belonging, near to the works.

Also all that substantial DWELLING-HOUSE, with stabling, outbuildings, and appartenances thereto belonging, now in the occupation of Mr. John Griffilths.

Also all that conveniently situated and commodious DWELLING-HOUSE, now used as a public-house, with the garden, stabling, outbuildings, and appartenances, and water corn mill, now in the occupation of Mr. John Cartwright.

The whole of the above extensive works and premises are held under lease from Sir Stephen/Richard Glynns, Bart., for 31 years, from the 25th day of December, 1835, whereof ils years are now unexpired, together with the benefit of any extension thereof which there may be an understanding with the handlord to grant (if any such exists), and will be sold subject to the routs and royalties by the said lease reserved, and the covenants therein contained; and also subject to a morigage of the said premises to George Tabot, Eaq., of Green Hill, near Kidderminster, for 36,000.

The Oxford, Worcester, and Wolverhampton Railway Company have a branch to the shore works.

A copy of the working plans of the minerals, made by the mine agent, employed at the work, and a copy of the lease, and also of the terms under which Messrs. Chance and Co. work the fire clay mines, and of Mr. Glöbons's agreement for the wharf and railroad, may be inspected, and further particulars obtained at the offices of Messrs. Colins, Glowes, and Uthkoft, solicitors, Stourbridge; at R. Vajpy's Esq., official assignee, Waterloo-street, Birmingham, of Mr. Griffiliss, at the Oak Fearn Works; and at Messrs. Frasibled, solicitors, New Bank Buildings, London; and on and after the 1st of March next, particulars, with the Ilthographed plans annexed, may be obtained as above; and at the offices of Messrs. Colins, Glower, and of the auctioners, Stourbridge; at R. Vajpy's Esq., official assignee, Waterloo-street, Birmingham, of Mr. Griffiliss, at the Oak Fearn Work

REAT ST. JUST CONSOLS TIN AND COPPER
MINING COMPANY.
These MINES are situated in the parish of ST. JUST, in CORNWALL, one of the
closest mineral parishes in the county, and are bounded on all sides by rich and prosperus tin and copper mines—many of the loses of which are known to run into these mines,
the reports of the various mining captains, who have lately inspected the setts, speak of
hem in the most flattering and encouraging terms, and strongly recommend the workug of them.

continuous. These reports are set out at length in the prospectus of the company, which can be tained at the offices of the committee of management (which is already formed), No. 3, the street, Bedford-row, London, where also every other information can be obtained, without with the form of application for shares, &c.

STENSON'S EMISSION ROTARY-ENGINE.—Our readers are generally, mos probably, aware that the class of rotary-engines, termed "emission," are those in which the power produced is by the simple emission of the steam from orifices around the circumference of a hollow wheel, and the engine from orifices around the circumference of a hollow wheel, and the engine revolves by the force of recoil, on the same principle as a rocket moves through the air. This principle of rotary-engine is more out of public favour than, perhaps, any other, from the great loss of power which has hitherto attended it. The one patented by Mr. Stenson consists in employing two emission wheels, instead of one; one of these wheels is keyed ploying two emission wheels, instead of one; one of these wheels is keyed to the main axle, and the other rotates freely upon it, being kept steamight by means of a stuffing-box. The two wheels are of the same diameter, and revolve parrallel to each other. The axis, arms, and rims are hellow. The rim of each has two or more oblique emission ports—those of one wheel being placed at oposite quarters of the circle to the other, and those on one wheel are inclined the reverse way to those on the other, so that the two wheels, when set in motion, revolve necessarily in opposite directions. The opposite faces of the two whoels are indanted after the manner of the buckets of an overshot water-wheel; and, consequently, the steam emitted from each wheel is projected against the bucket-faced periphery of the other, causing each wheel to serve as a fulcrum for the steam of the other to act against. The affective power of both wheels is thus transferred to the axis, and may be transmitted thence to any working shaft, through the medium of bevil gear, or bands and pulleys.

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MANCHESTER, SHEFFIELD, AND LINCOLNSHIEL.—An important branch of this line has been opened for public traffic. It is a short line of 7½ miles, by means of which a junction with the Midland Railway will be formed, and the distance between Derby and Manebester consulerably shertened, and passengers will avoid going round by Masborough. The gradients are 1 in 150. There is one tunnel on the line 374 yards long. The highest embankment is 51 feet.

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OF ROYALTY AND THE AUTHORITY OF THE FACULTY.
COUGHS, ASTHMATIC AND CONSUMPTIVE COMPLAINTS, SHORTNESS OF
BREATH, HOARSENESS, &c., EFFECTUALLY and SPEEDILY CURED by their use.

They have deservedly obtained the high patronage of their Majesties the King of Prausia and the King of Hanover—very many also of the Nobility and Clergy, and of the public generally, use them, under the recommendation of some of the most eminent of the faculty. Such medical testimony must be convincing of their efficacy.

Being made from the prescription of an eminent physician, they are confidently recommended to persons subject to the above complaints.

Allow the Lovenges to dissolve in the mouth gradually.

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Sin,—Having been attacked by the influenza, a short time ago, it left me with a very roublesome coagh—was recommended to try your Lozenges, which, I am happy to say, sompletely errod me, after only taking half a box of them. I shall always feel the greatest pleasure and confidence in recommending your Lozenges to my friends.

I am, Sir, your most obedient servant,
Thomas Keating, Esq.

A STHMA, CONSUMPTION, COUGHS.—Another testimonial just received of the efficacy of Dr. LOCOCK'S PULMONIC WAFERS:—
"Man of Ross House, Ross, Jan. 23, 1849.—Gentlemen: A lady, a few months ago, told us she should never fear a consumptive cough again as long as she could get a beg of Dr. Locock's Wafers, although the greater part of her family had died of consumption. (Signed) Carcy, Cocks, and Roper."—Dr. Locock's Wafers give instant relief, and a rapid care of astima, congins, and all disorders of the breath and lungs. To singers and public speakers they are invaluable for clearing and strengthening the voice; they have a most pleasant taste.—Price 1s. 14d., 2s. 9d., and 11s. per box.
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MAN HOOD: the CAUSES of its PREMATURE DECLINE, with plain directions for its perfect restoration. A Medical Essay on those diseases of the Generative Organs, emanating from solitary and sedentary habits, indiscriminate excesses, the effects of climate, and infection, &c., addressed to the sufferer in youth, manhood, and old age; with practical remarks on marriage, the treatment and cure of nervous and mental debility, impotency, syphilis, and other urino genital diseases, by which even the most shattered constitution may be restored, and reach the full period of life allotted to man. The whole illustrated with numerous anatomical engravings on steel, in colour, explaining the various runctions, secretions, and structures of the reproductive organs in health and disease; with instructions for private correspondence, cases, &c.—By J. L. CURTIS, consulting surgeon, 7, Frith-street, Soho-2q., London.

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YEW MEDICAL WORK .- Dr. G. T. HUNTER on Diseases and Weakness of the Generative Organs, containing a popular anatomical description of the parts—contagious diseases, gonorrhosa, syphills, &c.—their prevention and care; chronic diseases, including gleets, rheumatism, and a new method of treating strictures; spermatorrhosa and weakness; enervation of the physical and mental powers, by the practice of secret vice or excessive indulgence; matrimony, its obligations, expectations and disappointments; with a long Appendix of prescriptions and instructions. The whole complied with a view to affording a safe guide for self-treatment, and containing a greater amount of genuine practical information than is to be found in any work of the kind hitherto published.—Sold at 116, Fleet-street; and sent free for 2s., in money or stamps, by J. Barkley, 37, Leiesster-square, London.

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THE SILENT FRIEND: a medical work, on the infirmities and decay of the generative system, from excessive indulgence, infection, and the inordinate use of mercury, with remarks on marriage, and the means of obviating certain disqualifications, illustrated by 26 coloured engravings. By R. & L. PERRY & Co., consulting surgeons, 19, Berners-street, London. Published by the authors; sold by Strange, 21, Paternoster-row; Hannay, 63, and Sanger, 150, Oxford-street; Starle, 23, Titchborne-street, Haymarket; and Gordon 146, Leadenhall-street.

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ELIGIBLE PREMISES, on the banks of a navigable river, and within a few hundred yards of the South Wales Railway, comprising a GLASSHOUSE CONE, with extensive BUILDINGS, and about FOUR ACRES of good LAND. The works have been recently used for making Charcoal and Sagar of Lead, and are held on a lesse, of which 96 years are anexpired. The premises are well adapted for other manufacturing pursoes, as coals are near, and cheap. The apparatus may be taken at a valuation. For farther particulars apply (post-paid) to T. W. Lawford, solicitor and land agent, trydail, Llandillo, South Wales. QUGAR OF LEAD WORKS, IN SOUTH WALES .-

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DUISBURG IRON-WORKS.—Company's Offices, No. 28; Moorgate-street, City.—Extensive MINES OF IRON ORE are the absolute property of this company: they are stimate in the middle of the rich COAL BASIN of the RUHR, close to the railways to Berlin, Cologne, Elberfold, and other principal towns of Germany. An almost inexhaustible and cheap supply to blast-furnaces, which are to be constructed next spring, in the vicinity of Duisburg, near the Rhine, will be obtained from these mines, with a view of meeting a portion of the large demand for "pig-iron" The commany believ measurements.

ir the German markets.

The company being managed as a *Société en Commandite*, in Prussia, and under the Cost-book Principle "in England, the responsibility of the shareholders is thereby le-lly limited to their shares. mation may be obtained, and specimens inspected, at the above offices.

Eurther information may be obtained, and specimens inspected, at the above offices.

CONOMICAL STEAM-ENGINE—Surpassing the Cornish.
CRADDOCK'S PATENT DOUBLE CYLINDER HIGH-PRESSURE
EXPANSIVE AND CONDENSING ENGINE.
Alike ADAPTED FOR MARINE, LOCOMOTIVE, AND STATIONARY PURPOSES.
BOILER.—Tubular, free from deposit, and perfectly safe from explosion.
ENGINE.—Not half the weight or bulk of ordinary engines.
FUEL.—Not half that required by the best engines of the common kind.
WATER.—Under one gallon per horse-power per day of 10 hours, for all purposes, with air as the medium of condensation.

These engines are crected at a comparatively trifling expense, and are easily worked.
FOR SALE.

TWO 40-horse power ENGINES, sulred to condense either by air or water.
ONE 25-horse power ditto ditto ditto
ONE 14-horse power ditto ditto ditto
ONE 14-horse power ditto ditto ditto
A FAIR of OSCILLATING MARINE ENGINES, of 10-horse power.
FRICE.—E30 per horse-power.

A PAIR of OSCILLATING MARINE ENGINES, of 10-horse power.

These engines are quite new, with boiler, condenser, and regulating damper—all got pin the best and simplest manner. They are much simpler, and almost beyond comparison more compact than the Cornish engine, also more safe and economical than even hose engines, yet the price of the Cornish is nearly double that at which these are oftered.—Parties wanting engines will find in the above good bargains. Apply to Thomas Craddock and Co., engineers, 36 and 38, Broad-street, Birmingham, there engines on the above principle may be seen at work.

Also ON SALE, THREE 4-horse HIGH-PRESSURE ENGINES, simply arranged, and rell got up.—Price £12 per horse-power.

CALIFORNIA.—To Merchants, Ship-builders, Lords of the Admiralty, and Captains of Vessels.—The WHEEL-RIGGED SHIP, patented by Admiraity, and Captains of Vessels.—The WHEEL-RIGGED SHIP, pater to WHEEL Rigges SHIP, pater to Medical Rigges Research Rigges Research Rigges Research Rigges Rigg

CALIFORNIA.—THE BALLOON RAILWAY, patented by J. BROWNE, Eq.—To American and English Capitalists.—Proposed COMPANY, to be established, of the BALLOON RAILWAY, to go from Washington direct to any particular spot in California, distance 3000 miles, under favourable circumstances, to be done within the three days. The expenses attendant on the fabrication of the balloon railway not to be 1-50th of the present cost, and travelling would be attended with less danger.—Visitors received from Twelve o'clock till Five.—30, Great Portland-street,

BRISTOL AND EXETER RAILWAY COMPANY.—

Notice is hereby given, that the next HALF-YEARLY GENERAL MEETING of the proprietors of this company will be HELD, in pursuance of the Act of Parliament, at the White Lion Hotel, in the city of Bristol, on Thursday, the 1st of March, at Twelve o'clock, for the election of four directors, in the room of those who retire, and for other affairs.—The chair will be taken at One o'clock precisely.

The retiring directors may be re-elected.

JAMES W. BULLER, Chairman.

The retiring directors may be re-elected.

The transfer-books will be closed on Monday, the 19th February, and not be reopened till after the said general meeting, on the 1st of March.

The dividend and interest for the half-year ending on the 31st of December, 1848, will payable to those shareholders who stand registered when the transfer-books are closed the said 19th of February.

se payable to those shareholders who stand registered when the transfer-books on the said 19th of February.

Shares in arrear do not entitle the holder to vote, nor are proxies availab odged with the secretary five days, at the least, before the meeting.

By order of the board of directors,
Bristol Office, 30, Broad-street, Jan. 26, 1849.

J. B. BADHAM, See

Bristol Office, 30, Broad-street, Jan. 36, 1849.

J. B. BADHAM, Secretary.

TIDER'S RAILWAY BRIDGE.—TO RAILWAY COMPANIES.—This BRIDGE has now been for 18 months in DAILY USE (having
a double track) on the HARLEM RAILWAY, in the State of New York, United States.
The Eric Railway and the Newhaven Railway Companies have likewise adopted it.
Several other bridges, for ordinary purposes, are also being constructed.
The advantages of this over all other iron bridges hitherto invented, consist in the
small amount of iron required, compared with the strength obtained, in avoiding the
use of any surplus weight of material, in the consequent economy of its construction,
and also from its lightness, casy mode of putting together, and facility of transport, in its
peculiar adaptation for foreign use.
As regards economy, it can be creeted at a cost not exceeding that of a WOODEN
BRIDGE, of equal capability.
Applications to be made to Mr. Moulton, the patentee, Bradford, Wilts; or to Mr.
Howard Jacobson, Suffolk-lane, Thannes-street, London.

CHAPTER ACCISION, SURDIN-LADE, THARDES-AFFECT, LORGON.

PROPRIETORS of IRON FORGES and MILLS are respectfully INVITED to MAKE TRIAL of Mr. BLEWITT'S REFINED IRON, or METAL, PREPARED by a NEW PATENT PROCESS, whereby the IRON is completely FREED from the IMPURITIES CONTRACTED in the BLAST-FURNACE, and, by Judicions mixtures, rendered applicable to every kind of manufacture. Heretofore, the metal usually sold in the market has been produced from he worst pigs, scraps, and refuse of some particular blast-furnace, or set of furnaces, without any mixture, or any regard of quality, or the purpose for which it might be required. The PATENT METAL is PREPARED ON SYSTEM, and TO ORDER, for any of the following purposes:—

any of the following purposes:—

1. FOR BOILER and TANK-PLATES.
2. FOR TIN-PLATES, commonly called COKE-PLATES.
3. FOR TIN-PLATES, commonly called COKE-PLATES.
4. This COMPOUND PUDDLED, beat under the hammer into a bloom, reheated, and rolled into a 6 or 64-inch bar, makes TOPS and BOTTOMS for FLANCH and OTHER RAILS, of very superior quality, and attended with leas waste than any other kind of iron used for that purpose. It is also well adapted for nail-rods, horse-shoes, and for other ordinary uses of the blacksmith.

The PATEST METAL is marked with a squirrel, and the initials "R. J. B.," and is to be had only at the "Cwmbrain Iron-Works," near Newyork, Mommouthshire.

O PUBLIC COMPANIES, MERCHANTS, MINERS, &c. PUBLIC COMPANIES, MERCHANTS, MINERS, &c.

- EVERY DESCRIPTION of ACCOUNT BOOKS requisite for the Countries.

HOUSE or BOARD-ROOM, manufactured to any pattern and ruling, hot-pressed, and bound in the most durable manner (paged in type, without additional cost), on a scale of charges reduced to meet the times.—WRITING PAPERS, ENVELOPES, and STATIONERY, of the very best description, on the like reduced scale. Lists on application.

F. W. RALPH, COMMERCIAL STATIONES,

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OFFICE FOR PATENTS, 7, STAPLE INN, HOLBORN.

Informs INVENTORS and PATENTEES, that, at his OFFICE, they can obtain

REFERENCE TO A CLASSIFIED LIST OF PATENTS

(THE OBLY ONE KETANT), which shows at one view all the Patents over granted for any
particular object, whereby they may save much trouble and expense, and procure information not otherwise obtainable. BRITISH and FOREIGN PATENTS OBTAINED,
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SPECIFICATIONS carefully prepared, and REPORTS of ENROLLED SPECIFICATIONS furnished on moderate terms.

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Just published.

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GEOGRAPHICAL AND MINERALOGICAL NOTES, to
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London: Published by James Wyld, Geographer to the Queen and Prince Albert,
Charing-cross East, and 2, Royal Exchange; and Simpkin & Marshall, Stationers'-court,
Price One Shilling; with Map, Three Shillings.

Price One Shilling; with Map, Three Shillings.

Under the sanction and patronage of His Royal Highness PRINCE ALBERT, Lord-Warden of the Stannaries, Chief Steward of the Duchy of Cornwall and Devon, &c.
Shortly will be published,

THE MINING ALMANACK roz 1849: being a Yearly Compending of information on General Science; with Statistical Details relating to the Mining Engineer, Editor of the Mining Downal, &c.—This work will contain, in addition to Commercial intelligence with important Statistical and Tabular Matter—Parliamentary and Official Returns from the Mining Districts, made up to the 3ist December, 1848—Original Papers on Geology, Mineralogy, Metallurgy, Practical Mining, Engineering, and Mechanics—Abstracts of the Statutes affecting Joint-Stock Companies—A comprehensive Treatise on the Cost-Book System and the Stannaries Courte—Rules applicable to the working of Mines and Collieries—Lists of Members of Scientific Bodies—and other valuable information connected with the various branches of science.—Published at the office of the Mining Journal, Railway and Commercial Gaestie 26, Fieet-street.

EASTERN ARCHIPELAGO COMPANY.

JOHN MACGREGOR, Eag., M.P. (task Secretary of the Board of Trade), Chairman.
Bankers.—Messrs. Glyn, Hallisk, Mills, and Co., London.
The objects of this company are, to earry on mining, agricultural, and trading operations in the Eastern Archipelago, and the acquiring and disposing of lands in the island of Labean, and the parts adjacent (Borneo), a region abounding in mineral wealth, mo lertile in all the valuable tropical productions, and very happily situated for the purpose of compares.

of commerce.

Applications for detailed prospectness, and for the remaining shares, may be addressed to Messrs. Carden and Whitehead, No. 2, Royal Exchange Buildings; Messrs. Gledstanes and Co., No. 3, White Lion Court, Cornhill; Messrs. Prichard and Dale, Liverpool; A. Krauss, Esq., Manchester; Messrs. Ridsdale and Myers, Leeds; Messrs. T. F. Dickinson and Co., Newcastic-on-Tyne; William Bell, Esq., and Messrs. J. Wilson Pillans, and Co., Edinburgh; B. J. Willson, Esq., Dublin; John Macgregor, Esq., M.P., Chairman, Athenaum Club, Pall Mail; Henry Wise, Esq., Managing Director; or Mr. Woolley, Secretary, No. 1, Adam Street, Adelphil.

NDURATED AND IMPERVIOUS STONE COMPANY.

Capital -£20,000, in 2000 shares, of £10 each.

[Provisionelly Registered.]

N.B. -OBERS EXECUTED FOR PAVING, &c.

ipply for prospectness, &c., to Mr. William Hutchison, Calverley Quarry, Tunbrid

ils; or to Messrs. Hutchison, Wilford, and Co., East Temple Chambers, 2, Whitefrian

et, Flock-street, London.

CARNE'S BULL HOTEL, 92, BISHOPSGATE-STREET-WITHIS, LONDON.

GEORGE CARNE, In announcing the REOPENING of this long celebrated HOTEL, which has been newly furnished, painted, and decorated throughout, begs to assure his friends, and strangers visiting the metropolis, that every effort will be used to afford them all the comforts of home. The Steeping Apartments, to which especial care has been directed, will be found equal to any in London, whilst the following List of Charges will show that every thing is conducted on the most economical scale.

Bed and Breakfast, 3s. per day; Dinner of two courses, and imperial half-pint of wine, at the ordinary, at half-past One, 2s.; private sitting-rooms, from 2s. per day.—Fixed charge for servants.

Porter and female attendant in waiting, for all the trains.

Wines, of the highest quality, drawn from the wood.—Plementh clies.

harge for servants.

Porter and female attendant in waiting, for all the trains.

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Wines, of the highest quality, drawn from the wood.—Plymouth Gin, and all other pirits, of the purest quality.

N.B.—Mine Agents having bond fide valuable Setts to bring before the public, will be alroduced to parties likely to advance their interests.

CUNNINGHAM AND CARTER'S NEW SYSTEM OF RAILWAY PROPULSION.—Railway Directors, Engineers, and the public nerally, are invited to examine this system, which may be VIEWED on Mondays, Weddays, and Saturdays, from half past Eleven to Three o'clock, at Ingram's Manufac 29, CITY-ROAD, near Finsbury-square.

DORTER'S PATENT CORRUGATED IRON BEAMS, GIRDERS, and FIRE-PROOF FLOORS.—These BEAMS and GIRDERS are about 30 per cent. lighter, and 20 per cent. cheaper, than any others of wrought-iron.—The FIRE-PROOF FLOORS, although not more costly than those of cast-iron, with brick arches and concrete, give greater security from fre, with less than one-tenth of the weight.—MANUFACTORY—IRON BUILDING & ROOFING WORKS, SOUTHWARK. OFFICE—2, ADELAIDE-PLACE, LONDON-BRIDGE, CITY.

NDREW SMITH'S PATENT WIRE ROPE—NOTICE AND CAUTION.—The UNDERSIGNED begs to inform the Public, and especially the MINING, RAILWAY, and SHIPPING INTEREST, that he has become SOLE LICENSEE of Mr. ANDREW SMITH, for the MANUFACTURE and SALE of his PATENT WIRE ROPE; and that he has taken to the premises, late Mr. Smith's, at Millwall, Poplar, where orders will be executed with the untost attention and dispatch, and on reasonable terms. Patent Wire Rope Works, Millwall, Poplar, Nov., 1848.

CAUTION.—Persons PURCHASING, or USING, the PATENT WIRE ROPES, NOT MANUFACTURED by the above LiGENSEE, are warned that they will be liable to be sued for damages as infringers of Mr. Smith's Patent.

PATENT IMPROVEMENTS IN CHRONOMETERS,
WATCHES AND CLOCKS.—E. J. DENT, 82, Strand, and 33, Cockspur-street,
watch and clock maker, BY APPOINTAIENT, to the queen and his Royal Highness
Prince Albert, begs to acquaint the public, that the manufacture of his chronometers,
watches, and clocks, is secured by three separate patents, respectively granted in 1836,
1840, 1842. Silver lever watches, jewelled in four holes, 6 gs. cach; in gold cases, from
£8 to £10 extra. Gold horizontal watches, with gold dials, from 8 gs. to 12 gs. each. DENT'S PATENT DIPLIEDOSCOPE,

Instrument, is now ready for delivery.—Pamp ns for its use is. each, but to customers gratis.

ATENT ALKALI COMPANY'S IRON PAINT.—This PAINT is the PRODUCT of a PATENT PROCESS, and possesses PECULIAR and VALUABLE PROPERTIES, not otherwise attainable. Its colour (as at present produced) is a rich purple-brown. It is perfectly free from the deleteractes all other paints ever yet discovered, in point of durability and economy. Two coats of this paint are more than equal to three of any other description. From its chemical composition, it is pre-eminently adapted for covering from a size wood, and stuccoed, or brick buildings. The process by which the base of this paint is produced, makes it impossible that any change should take place in its composition from atmospheric influence. Its identity with from secures it from galvanic action, so fatal to the durability of lead and other paints on from work. It has been exposed on shipping to the action of sea water, and of the sulphuretted hydrogen, so prevalent in see-ports and itial harbours, for more than three years, without change.—Its cheapness and strength render it peculiarly suitable for 'error bridges, roofs, and rollings, farm buildings, and shipping I it will also cover crossored timber. Price, by the ton, £25, delivered in London, exclusive of packages.

Agants will be appointed for the principal towns in the United Kingdom; in the mean time, orders may be addressed to the offices of the company, No. 20, Fenchurch-street, London.

DATENT MINERAL PAINT —After three years' trial on the

DATENT MINERAL PAINT.—After three years' trial on the sides and bottoms of iron and timber-built ships, this PAINT has proved itself equal to copper as a protection from vegetation, as well as the sea-worm and all other adhesive matter. It is also peculiarly adapted for spouts and guitters, from railing, feltor wooden roofs, tarpaulings, damp walls, or any other surface that requires to be made waterproof at a small cost, and is ready for use, in casks of 2 to 20 gallons.

Brilliant black, 2s. per gallon—Rich brawn, 2s. 9s. per gallon.

EMERSON'S PATENT LIQUID CEMENT.—This valuable and economic PAINT is so adhesive, that it will cling to any surface—brick, Roman cement, and all other plastered work; and, being a rich cream colour, is more pleasing and natural in appearance than oil, and at an eighth of the cost. It is ready for use, will dry in a few hours, and possesses the property of protecting the walls as well as Roman cement. Sold in casks of 1 cwt. 2 cwts., and 3 cwts., at 8 s., 18s., and 21s. per cask. GEO. LEAR & CO., Sole Agents, 16, Basing-lane, Cheapside.

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DAMP AND GASEOUS EXHALATIONS.

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All MEMBERS of BOARDS OF HEALTH are especially DIRECTED to the most EFFECTIVE MEANS which they can ADOPT to PREVENT the injurious and often FATAL EFFECTS upon the HEALTH of the COMMUNITY, arising from exhalations that are produced from moisture, decayed animal matter (as in grave-yards), stagmant water, and collections of feetid refuse, tending to produce a minamatic state of atmosphere. In situations so effected, the impervious quality of the ASPHALTE of SEYSSEL renders it the most perfect PAVEMENT or COVERING that can be relied upon for hermetically closing, and thereby preventing the rising of moisture and escape of noxions vapours. The present extensive application of this material for covering roofs, terraces, and arches, for preventing the percolation of well, is strong evidence of its effectiveness for the above purposes, which is further confirmed by the following extract from the Report of the Commissioners on the Fine Arts:—

"In 1839, I superintended the construction of a house of three stories on the Lac d'Enghein. The foundation of the building is constantly in water, about 194 inches below the level of the ground floor. The entire horizontal surface of the external and interval wells was covered at the level of the internal ground floor with a layer of SEYSSEL ASPHALTE.* less than half an inch thick, over which coarse sand was spread. Since the above date, no trace of damp has shown itself round the walls of the lower story, which are for the most part painted in oil, of a grey stone colour. It is well known that the least moistarps produces round spots, darker or lighter, on walls so painted. Yet the pavement of the filor, resting on the soil itself, is only about 24 in. above the external surface of the soil, and only 194 in, at the utmost, above that of the sheet of water.

The layer of Asphalte having been broken and removed, for the purpose of inserting the sills of two doors, spots indicating the presence of damp has who been since of water

Seyasel Asphalte Company, Stangata, London.

This method has been adopted at the new Houses of Parliament.

DLANTAGENET GUARD RAZORS, Manufactured under the authority of LETTERS PATENT GRANTED by HEE MAJESTY THE QUEEN, and under the especial Patronage of the Mobility and Gentry, the Army and Navy, the Clergy, the Bar, and the Faculty.

The Rasor is made of the finest tempered steel, imparting a matchless smoothness and keenness to the edge; and the addition of the Guard causes the Rasor to glide with safety over the face, removing the beard without the possibility of cutting the akin.

Guard Razors are fitted for right-hand and for lori-hand shawing exclusively.

Best black handles, per pair, 12a.; single, 6a. Bestivory handles, 16a. per pair; single, 8a.—Sent post-free for 8d. each extra.

A pair of the best Rasors, elegantly finished, in a superior Russis box, is a valuable present for a nervous, paralysed, or short-sighted friend—price One Guinea; sent free for is. 6d. extra. The Razors are warranted, and will be exchanged if found imperfect. A single Razor, of the same quality and finish, in a near roan case, sent free for 10a.

C. STEWART & CO., Fatentees, removed from 140, Strand, to 22, Charing Cross, London. Post-office orders to be made payable to them at the Charing Gross post-office.

CAUTION.—Every Guard is stamped with the signature of "C. Stewart and Co.," to imitate which is forgery.—A full description of the invention, with testimonials from practical application, sent post-free.

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BOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ADOVE PORTS
by their steamers—starting from Southampton on the 20th of every month; and from
Sues on or about the 10th of the month.
BOMBAY.—Passengers for Bombay can proceed by this company's steamers of the 29th of
the month, to Malta, thence to Alexandria by her Majesty's steamers, and from Suez
by the Honourable East India Company's steamers.
MEDITERRANEAN.—MALTA—On the 20th and 29th of every mouth. CONSTANTINOTLE—On the 29th of the month. ALEXANDMA—On the 30th of the month.
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17th, and 37th of the month.

For plans of the vessels, rates of passage-money, and to secure passages, and ship carge apply at the company's offices, No. 122, Leadenhall-street, London; and 57, High-street

NOTICE TO SHIPPERS OF GOODS AND PARCELS, per PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY'S STEAMERS, to INDIA and CHINA.—GOODS and PARCELS and direct to the company's parcel office, on or before 6 r. w., on the 17th of seach month, are forwarded at less cost to shippers than when sent through any intermediate channel. Cases must not exceed 180 lbs. weight each, for Adon, Ceylon, Madras, Calcutta, and China; and 40 lbs. each case for Bombay. No package for India or China can, under any circumstances, be shipped at Southampton, unless it be cleared through the Custom-house, and placed alongside the steamer by noon on the 19th of each month.

Detailed particulars can be obtained on personal application, or by writing. Parcel Department, 122, Leadenhall-street.

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Under the Sanction and Protection of the American Government;

AND TRADING BETWEEN GREAT BRITAIN, THE UNITED STATES, THE EAST INDIES, AND OTHER COUNTRIES.

Capital £500,000, in \$5,000 share, of £10 each.—Deposit £1 per share.

OFFICES, 6, FINSBURY-SQUARE, LONDON.

CALIFORNIA EMIGRATION SOCIETY.

CALIFORNIA EMIGRATION SOCIETY.

In order to facilitate the emigration of the working classes, shich constitute the real seculity of a country, an EMIGRATION SOCIETY has been formed in connection with, and at the entire cost of the above-named company; the following advantages, amongst others, are held out to members.

No deduction for commission will be made from their subscriptions (as in other Free Passage Associations). One subscriber in every forty will be entitled to proceed to the colony by the company's first ship, the ontift being liberally provided for; on arrival, every facility will be afforded by the resident agents and superintendents.

The selection of members to go out will be made by themselves on the same plan as that exercised in building societies, and those established in the potenties. The first bailot (of which due notice will be given) will take place in the presence of members, so soon as 7000 shares have been subscribed for; those unable to attend will be permitted to depute any one on his or her behalf, who will be admitted on producing the share certificate; and those on whom the choice falls will be allowed to dispose of, or transfer their privileges to any party or parties they please; if married, the company will send out their wives and similies with them on advantageous terms; immediately on arriving in California, a portion of land, with habitation erected on it, will be let at a low result, to those eligible, who will be required to transmit home, by instalments, through the resident agent, as soon as practicable, the value for the benefit received by them—such return will be required to place themselves in immediate communication with the secretary, in London, in order to obtain the requisite certificate, &c.

The most stremuous exertions will be made by the directors to despatch the first ship early in the ensuing month. Emigrants desirous of returning to the mother country will be afforded very assistance to effect their wises.

Bankers—The London Joint Stock Bank, Princes-s

The attention of all parties, of both sezes, following the professions and the below, is particularly drawn to the statements emboded in the prospectivitied to apply at the offices of the company for information, which will reduce the company for information and information ms and trades enumera-prospectus; and they are ch will readily be afforded. Potters Sallmakers Brickmakers Dyers
Boot & shoe makers Engineers
Brushmakers Engravers
Butchers Furtiers
Cabinetmakers Hairdressers

Offices, 6, Finsbury-square, London, Feb. 1, 1849.

GUTTA PERCHA COMPANY—PATENTEES,

CUTTA PERCHA COMPANY—PATENTEES,
CITY-ROAD, LONDON.
The GUTTA PEEGHA COMPANY beg to bring under the notice of Mina Owners,
Manufacturers, &c., the GREAT SAVING, both of time and expense, which is effected
by the use of the GUTTA PERCHA PUMP BUCKETS and VALVES. These Buckets
may be had of any size or thickness, wishout any scann or raised joint. They are unaffected
by acids, alkalies, &c. Cold water will never soften them, and they are, consequently,
much more durable than leather, and also cheaper. The most gratifying testimonials
have been received from millowners, who have had these Buckets in operation for several months past, without the slightest repairs being required.

Being so remarkable a CONDUCTOR of SOUND, is now being extensively applied for
CONVEYING MESSAGES from ONE BUILDING, or PLACE, to ANOTHER. If a
Tubing of this material, I inch diamater, be carried from the mouth of a mine, or plt,
down the shaft, to various parts of the mine (no matter whether a quarter or hair a mile
distant), an instant communication may be established by means of the whistle, or
Whishaw's principle, and a conversation carried on as distinctly; as though the parties were
but a few feet from each other. When these Tubes are in general use, they will greatly
lessen the leas of life is mines.

GUTTA PERCHA DRIVING BANDS

Continue to secure a continually increasing demand; they can be had of any size length. Their durability and strength, permanent contractility and uniformity of su stance, their non-susceptibility of night from contact with oils, greace, acids, alkalie, water, and the facility with which the only joint required can be made in bands of fro 200 to 300 feet long, render them superior for almost all working purposes, and decided

conomical.

GUTTA PERCHA Soles for Boots and Shoes, Bowls, Buckets, Picture Frames, Br
Mouldings, Surgical Instruments, Vases, Cups, Inkstands, Balls, &c., may be had
Company's Works, Wharf-road, City-road, London, or of any of their wholesale

TEUBER'S IMPROVED LIQUID GLUE—Impervious to DAMP or HEAT, perfectly free from smell, and ready for immediate use, for WOOD, METAL, STONE, MARBLE, IVORY, SLATE, GLASS, CHINA and EARTH-ENWARE, PLASTER MODELS, PAPER and PASTEBOARD, and various other purposes, this centment will be found a most invaluable acquisition.

Sold by all chemists, oil and colourmen, stationers, &c.; and also at the patentees, Messra. Nesher and Watkins, Varnish and Japan Manufacturers, 549, New Oxford-street, and 76, Long-acre, where samples may be obtained or forwarded, free, on receipt of 19 postage stamps.—Price, paile, 12s.; dark, 8s., per gall; and in bottles at 6d., i. & is. 6d. All letters, orders, &e., to be directed to 549, New Oxford-street.

"For repairing anything short of a 'kingdom out of joint,' or 'a broken constitution,' this improved liquid gius seems quite up to the mark. We have tried it on a china dish, a wooden box, and a meerichaum pipe, with equal satisfactory results."—Builder. "It will not mix with water, is consequently impervious to moisture, and romains quite unaffected in damp situations. It is incombusible, free from the slightest smell, dries quickly after a joint is made with it, and its adhesiveness and tenacity are, under most circumstances, superior to the common gine."—Vide Missing Joursad, December 9, 1848.

N.B.—Respectable country agents required.

(AUUTION.—"One of the most useful articles that can be pos-

CAUTION.—" One of the most useful articles that can be possessed is Robinson's Patent Liquid Glue."—Times. From the acknowledged excellence of Robinson's Patent Liquid Glue."—Times. From the acknowledged exery important town in the kingdom, has arisen numerous spurious inflications. Be particular to ask for Robinson's Patent Liquid Glue—none eise is genuine. Rettner time nor climate, hot nor cold fluids, affect it.—" It unites permanently severed glass, china, wood, cast-iron, stone, or marble."—Deogica Jerrold's Weekly Nesspaper. "An extremely valuable addition to the store of domestic requisites."—Aless.

In bottles, price is.—Depot, No. 78, High Holborn, opposite the George and Blue Bear, London; may also be had of Wm. Hobdell, 2, Astey's-row, Lower-road, Islington.

London: Printed by Richard Middleton, and published by Herry Essense (the pro-prietors), at their offices, No. 26, Flery-street, where all communications are re-quested to be addressed.